

west virginia department of environmental protection

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

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

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 410H

47-103-03576-00-00

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 410H

Farm Name: William D Ritchea & Shirley E

Horizontal 6A New Drill

U.S. WELL NUMBER: 47-103-03576-00-00

Date Issued: 4/19/2023

API Numb	er:							_	
4	7	1	0	3	0	3	5	7	0

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

- 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.

API NO. 47-709 1 0 3 0 3 5 7 6

OPERATOR WELL NO. William Pillonia WTZ 418H
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 Opera	tor: SWN Prod	duction Co., LLC	494512924	103-Wetzel	7-Proctor 6	881-Wileyville
			Operator ID	County	District C	Quadrangle
2) Operator's	Well Number: V	Villiam Ritchea W	/TZ 410H Well Pa	d Name: Willia	m Ritchea V	VTZ
3) Farm Name	/Surface Owner:	William D. Rinchea & Shirk	Public Ros	ad Access: Har	lan Ridge R	oad
4) Elevation, c	current ground:	1563'	Elevation, proposed	post-constructi	on: 1563'	
5) Well Type	(a) Gas x	Oil	Und	lerground Storag	ge	
	Other					
	(b)If Gas Sl	iallow x	Deep	-		
	H	orizontal x				
6) Existing Pa	d: Yes or No Ye	es				
		A COLUMN TO THE REAL PROPERTY OF THE PERSON	icipated Thickness : p TVD- 7684', Target Base TV			clated Pressure- 5026
8) Proposed T	otal Vertical Dep	oth: 7714'				
9) Formation a	at Total Vertical	Depth: Marcell	us			
10) Proposed	Total Measured I	Depth: 18,983'				
11) Proposed I	Horizontal Leg L	ength: 10,741.	39'			
12) Approxim	ate Fresh Water	Strata Depths:	541'			
13) Method to	Determine Fresi	h Water Depths:	BOFW determined from sal	inity calculations from V	Villiam Ritchea WT2	2 3H logs API 47-103-03129
			nity profile analysis			
15) Approxim	ate Coal Seam D	Depths: 1492'				
16) Approxim	ate Depth to Pos	sible Void (coal i	nine, karst, other):	None that we	are aware of	
		on contain coal se to an active mine		No.	×	
(a) If Yes, pr	ovide Mine Info	. Name.				
		Depth:				
		Seam:			- P	RECEIVED Of Oil and Gas
		Owner:			Office	AR 1 4 2073
					M.A	AL TATOLS

WV Department of Environmental Protection

> Page 1 of 3 04/24/2023

API NO. 47-009 7.3 0 3 5 7 6

OPERATOR WELL NO. William Ritchea WTZ 410H
Well Pad Name: William Ritchea WTZ

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	126'	126'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	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#	18983'	18983'	Tal 3327sol 100' Inside Intermediate
Tubing							
Liners							

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

PACKERS

Kind:		
Sizes:		
Depths Set:	+	



WW-68 (10/14) API NO. 47-009

OPERATOR WELL NO. William Ritches WTZ 410H

Well Pad Name: William Ritches WTZ

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

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

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production unites, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 12,500 psi @ 100 barrels a minute.

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

3/9/23

			CEMENT	ADDITIVES		
INTERVAL.	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	$>\!<$	INTEGRA SEAL	C1600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
61 ta 01	8001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	$>\!\!<$	INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
or to A is	\$001	A-7P	ÇJ₩O	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
:	0047	FP 28L	$>\!\!<$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	$>\!\!<$	INTEGRA SEAL	C7600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	$>\!\!<$	\times	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETARY
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S 001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	$\overline{}$	$>\!\!<$	CTI	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	$>\!\!<$	55-NW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	$>\!\!<$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	\mathbb{X}	$>\!\!<$	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	$\overline{}$	>>	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	>>	\times	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	$\backslash\!\!\!/$	\bigvee	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
PRODUCTION	\gg	FL-06	0501	LOW TEMP FLUID	POWDERED POLYSACCHARIDE	PROPRIETARY
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	\times	VISCOSI FIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3	> <	CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065	\times	\times	DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
		abla		CEMENT RETARDER	SODIUM	8061-51-6

RECEIVED
Office Of Oil and Gas

100 100 100 100 100

MAR 1 4 2023

1,563 ft MSL

Southwestern Energy Company

Proposed Drilling Program

Well:

WILLIAM RITCHEA WTZ 410

Field:

VICTORY FIELD WET

County:

WETZEL

SHL: BHL:

KB Elev:

39.6695 Latitude

39.6506 Latitude

1,589 ft MSL

-80.6250 Longitude KB: 26 ft AGL

Re-entry Rig:

SDC 41

Prospect: Marcellus Shale

State*

GL Elev:

wv

Southwestern Energy

126 to 611 Air/Mist

611 'to 2,970' Air/Mist/Brine

2.970 ' to 7.139 ' Air/Mist

> Air/Mist TD at 7,139

7.139 to 8.237

12.0-12.5 ppg

NO COAL VOID EXPECTED

-80.6594 Longitude

PROD TOC Lead @ 2,950 ' MD PROD TOC Tail @ 7,139 ' MD

TUBULAR DETAIL

	Casing Size	Weight	Grade	Planner	Interval
Casing String	(in)	(Min)	(Min)	From	To
Conductor	20	94.0#	J-55	0'	126 '
Surface	13.375	54.4#	1-55	0 '	591'
Intmdt/Coal	9.625	36.0#	J-55	0'	2,950
Production	5.5	20.0#	P-110 HP	01	18,983

CEMENT DETAIL

	Sacks	Class	Density
Conductor	160	A	19.3
Surface	680	A	15,6
Intermediate	#N/A	Α	15.6
Production	#N/A	A	14.5-15.6
			1

KOP at 7,139 ' MD

Freshwater Depth - 541 'TVD

Coal Depth - 1,492 'TVD

Saltwater Depth - 1,556 'TVD

TVD - 7,714' TMD - 18,983 '

7,586 ' Target Center

TD at 18,983 ' MD 7,714 'TVD

EOB at 8,237 'MD

SHL Onondaga 7,616 TVD

Created by: Sebastian Ziaja on 02/15/2023

Onondaga 7,744 TVD

Office Of Oil and Gas

8,237 to 18,983 12.5-13.5 ppg

MAR 14 (07

JACKSON SURVEYING INC. 2413 EAST PIKE ST, # 112 Clarksburg, WV 26302 304-623-5851 H H Co Z RIDE 田 ROPOSED SURFACE BUFFER AREA Ridge BOTTOM Fairview reley Dulaner **Postlethwaite** 2000 2000 0 IN FEET GRAPHIC SCALE NOTES ON SURVEY

1. SURFACE AND ROTALLY OWNER INFORMATION AND THEIR
BOUNDARES SHOWN FEREON WERE A CONTROL THEO
TAN PARKEL AMONE PROPRIES

2. THIS PLAY DOES MOST REPRESENT A BOUNDARY SURVEY OF THE
PRACELS SHOWN HERDON

4. NL HIGHTS ARE GRID HERTH UNLESS OTHERWISE OFFICIED. LEGEND: PROPOSED SURFACE HOLE / BOTTOM HOLE PUBLIC ROAD

ACCESS ROAD TO PREV SITE

LEASE BOUNDARY

PROPOSED PATH EXISTING / PRODUCING WELLHEAD LPLM: LANDING POINT LOCATION FLOOD PLANS WELL OPERATOR: WELL (FARM) NAME WELL # SWN PRODUCTION COMPANY, LLC ADDRESS: WILLIAM RITCHEA WTZ DISTRICT; PROCTOR COUNTY - CODE - 103 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WY 26508 SURFACE OWNER: WILLIAM D. RITCHEA & SHIRLEY E. RITCHEA WETZEL - 103
USGS 7 1/2 QUADRANGLE MAP NAME
WILEYVILLE, WY

Office Of Oil and

MAR 1 4 7073

4) 1105078

5	William Ritchea W.TZ 410H AOR						
Ą	Operator	Status	Latitude	Longitude	Vertical TD	Producing ormation	Producing Zones Not Perforated
47-103-01234	Perkins Oil and Gas, Inc., 1306 Edgewood Dr. St. Marys, WV 26170	ıt₩0n≯n.	:	:	42851	φ μ	
47-103-01291	Perkits Oil and Gas, Inc., 1306 I dgewood Dr. St. Marys, W.V 26170	inknown	***	:	3428"	Gordon Stray	
47-103-33978	Un ;nown	Jinknown	***	፥	3147	Garcon	
47-103-33768	UwonynU	Aipandoned	***	:	unknown	unkn: wn	
47-103-33331	Unknown	Alpandoned	*	:	unknawn :	uwanwn	
47-103-73053	Unknown	∪якпоwп	**	**	unknown	unknophn	
47-103-31162	Unknown	Alpandoned	***	**	unknown	unknown	
47-103-93036	Unknown	Juknown	***	**	unknown	unknown	
47-103-3:966	Unknowл	Unknown	***	***	3011'	Gordon	
47-103-03526	EQT Production Company 400 Wooddiff Drive Canonsburg, PA 15317	Active	39.654144	-80.620402	5,805	Marc: llus	
47-103-03527	EQT Production Company 400 Wooddiff Drive Canonsburg, PA 15317	Active	39.654175	-80.620368	5,552'	Marc:-llus	
47-103-03528	EQT Production Company 400 Woodcliff Drive Canonsburg, PA 15317	Active	39,654207	-80.620334	7,618'	Marcellus	

Office Of Oil and Gas

MAR 14 2023

WV Department of Environmental Protection

Operator's Well No. William Ritches WTZ 410H

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 com	plete 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	
	nit Number Various Approved Facilities
Reuse (at API Number_At the next at Off Site Disposal (Supply form W	
Other (Explain recovery and solidif	
Will closed loop system be used? If so, describe; Yes-See A	Attachment 3A
Drilling medium anticipated for this well (vertical and horizon	ntal)? Air, freshwater, oil based, etc.
-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, remove	d offsite, etc landfill
-If left in pit and plan to solidify what medium will b	e used? (cement, lime, sawdust)
	WF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021
Apex Sanitary Landtill Ub-U8438, Brooke Co S	WF-1013,
Permittee shall provide written notice to the Office of Oil and West Virginia solid waste facility. The notice shall be provide	Gas of any load of drill cuttings or associated waste rejected at any of within 24 hours of rejection and the permittee shall also disclose
where it was properly disposed.	a within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations law or regulation can lead to enforcement action. I certify under penalty of law that I have personal application form and all attachments thereto and that, bas	
Company Official Signature	Office Of Oil and Gas
Company Official (Typed Name) Brittany Woody	MAR 1 4 7023
Company Official Title Senior Regulatory Analyst	III Ingges
	Wy Department of Environmental Protection
Subscribed and swom before me this 38th day of	FEBRUARY 20 23
1AM	100000000000000000000000000000000000000
21.1	Notary Public Office State Sta
My commission expires 3/10/2027	04/21/2023

roposed Revegetation Treatment: Acres Disturbed 12.2	Pre	evegetation pH	303576
Lime as determined by pH test min.2 Tons/acre or to correct to pH	2 5.9	_	
Fertilizer type 10-20-20			
Fertilizer amount 600/500	os/acre		
Mulch_Hay/StrawTons/	acre		
See	d Mixtures		
Temporary		Permanent	F.,
Seed Type Ibs/acre Attachment 3C	Seed	1 Туре	lbs/acre
aps(s) of road, location, pit and proposed area for land applied ovided). If water from the pit will be land applied, include di reage, of the land application area. otocopied section of involved 7.5' topographic sheet.	mensions (L x W x D)	of the pit, and dim	this info have been ensions (L x W), and are
aps(s) of road, location, pit and proposed area for land applied ovided). If water from the pit will be land applied, include di reage, of the land application area. Notocopied section of involved 7.5' topographic sheet.	mensions (L x W x D)	of the pit, and dim	this info have been ensions (L x W), and ar
trach: Taps(s) of road, location, pit and proposed area for land application ovided). If water from the pit will be land applied, include discreage, of the land application area. The property section of involved 7.5' topographic sheet. The property section, seed, if much all	mensions (L x W x D)	of the pit, and dim	ensions (L x W), and are
aps(s) of road, location, pit and proposed area for land application ovided). If water from the pit will be land applied, include discreage, of the land application area. notocopied section of involved 7.5' topographic sheet.	mensions (L x W x D)	of the pit, and dim	RECEIVED Office Of Oil and G

Attachment 3A

CLOSED LOOP SYSTEM

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

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

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

AIR DRILLING INTERVALS

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

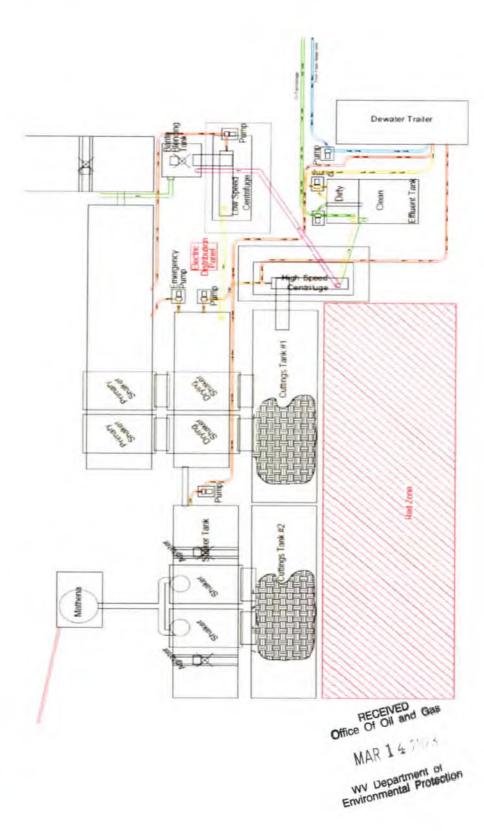
LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

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

RECEIVED
Office Of Oil and Gas

MAR 14 7023





Solids Control Layout

. : : / 3

Attachment 3B

Drilling Mediums

Surface/Coal(if present)/Freshwater Intervals:

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present):

Air

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

RECEIVED
Office Of Oil and Gas

MAR 1 4 2023



NON-ORGANIC PROPERTIES

Seed Mixture: ROW Mix

Orchardgrass

Fimothy

WVD Seeding Specification

15% 15% 2% 2% 2% 2% 2%

Pelletized Lime @ 2 Tons per Acre Apply @ 200lbs per acre Apply @ 50lbs per acre Oct. 15th- April 15th Oct. 15th-April 15th **SWN Supplied** NO FERTILIZER OR LIME INSIDE WETLAND LIMITS SWN Supplied WETLANDS (delineated as jurisdictional wetlands) (please allow 7 to 10 days for delivery) 2.5% 2.5% 2.5% 20% 2.5% 20% 20% 20% 10% 20% 2% 2% 2% 2% Seed Mixture: SWN Production Organic Mix Organic Fertilizer @ 2001bs per Acre Apply @ 100lbs per acre Apply @ 25lbs per acre April 16th- Oct. 14th April 16th- Oct. 14th Seed Mixture: Wetland Mix ORGANIC PROPERTIES Organic Red or White Clover Organic Red or White Clover Organic Perennial Ryegrass To Order Seed contact Lyndsi Eddy Flippa office 570-996-4271 cell 501-269-5451 lyndsi eddy@swn.com Cosmos 'Sensation' **VA Wild Ryegrass** Organic Timothy Annual Ryegrass **Solden Tickseed** Maryland Senna Swamp Verbena Showy Tickseed Fowl Bluegrass Office Woolgrass Fox Sedge MAR Soft Rush Redtop WV Department of vironmental Protection Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb innoculated at 5x normal "unless otherwise dictated by soil test results All legumes are bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter SOIbs per acre of Winter Wheat andowner Special Considerations including CREP program participants require additional Apply @ 500lbs per Acre Apply @ 2 Tons per Acre gaidance that is not given here. Discuss these requirements with SWN supervision at the Oct. 15th- April 15th PLUS Apply @ 200lbs per acre rate SWN Supplied

Apply @ 100lbs per acre April 16th- Oct. 14th

Medium Red Clover

Birdsfoot Trefoil Rough Bluegrass

White Clover

Brown Top Millet Annual Ryegrass

Red Top

SOIL AMENDMENTS

10-20-20 Fertilizer

Pelletized Lime

RECEIVED Of Oil and Gas

1 4 2023

Rev.3/30/2022

beginning of the project to allow time for special seed delivery.

ecial Considerations:

Wheat/ac).

monsis:

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

eeding Calculation Information

of 70' ROW/LOD is One Acre

622

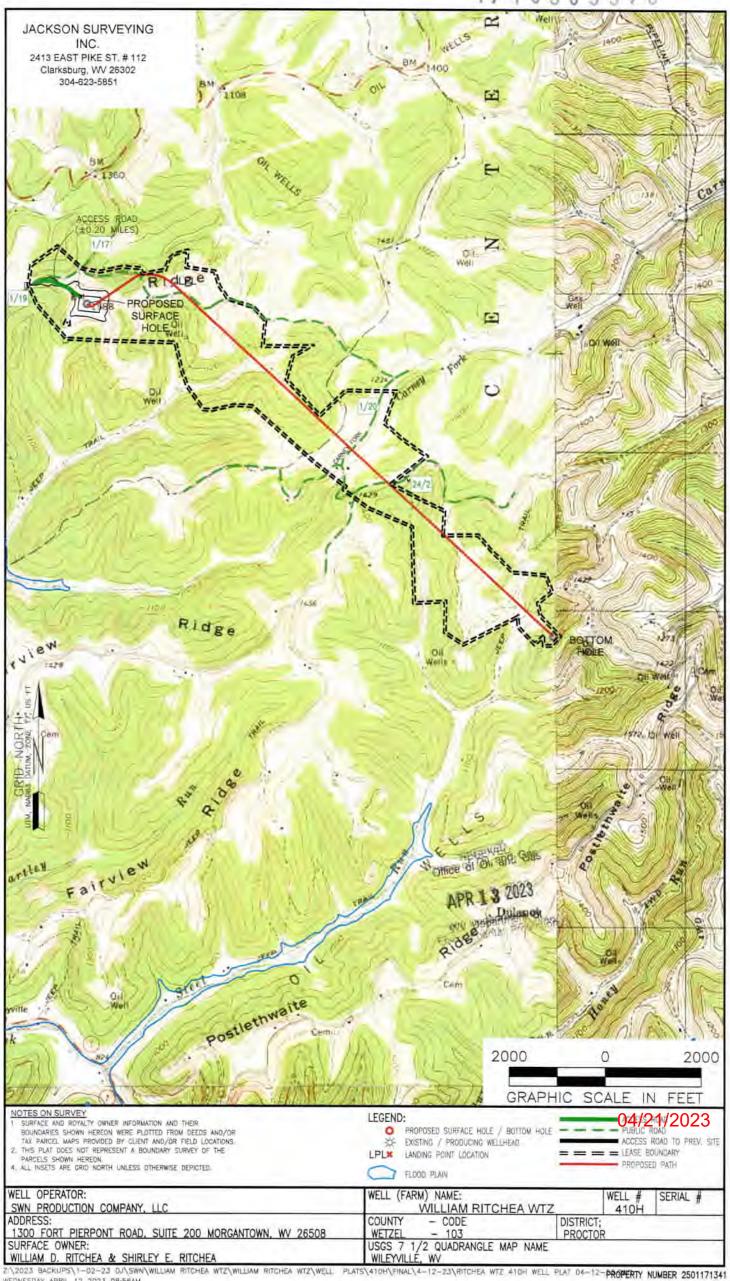
MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

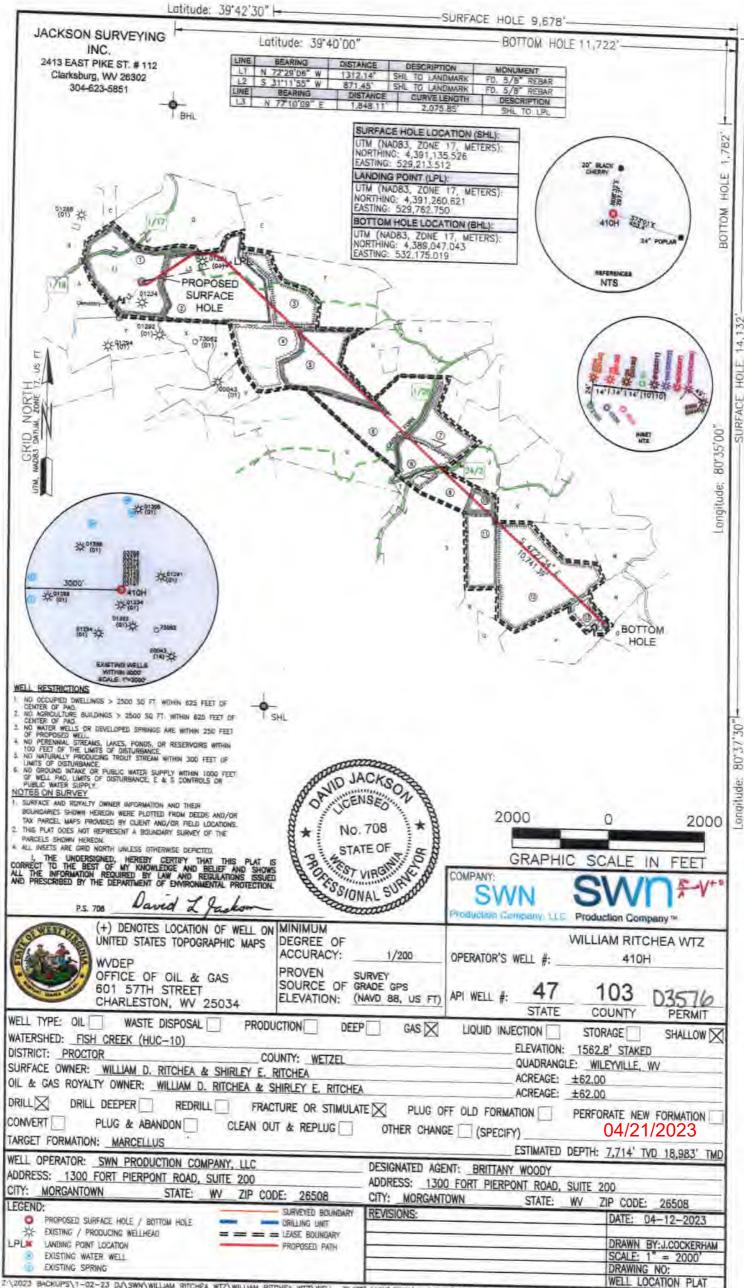


SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

API NO. 47-XXX-XXXXX
WELL NAME: William Ritchea WTZ 410H
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: My	Date: 3/9/23
Title: W Oil i Are Troperton	
Approved by:	
Name:	Date:
Title:	Office Of Oil and Gas
TMC.	MAR 1 4 7073
SWN PRODUCTION COMPANY LI	C - CONFIDENTIAL WY Department of





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

	WELL BORE TRACTS	
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	
1	RITCHEA WILLIAM D & SHIRLEY E (S/R)	TAX PARCEL
TRACT	SURFACE OWNER (S)	12-15-21
2	CHRISTY MICHAEL MIR ETAL & HALL SUSAN (S)	
3	HEETER HAROLD IR ETAL (S)	12-15-22
4	BROWN SANDY K (S)	12-15-23
5	AOHO KIMBERIA S KELLIN TANDA K	12-15-28
6	YOHO KIMBERLY & KEITH ALLEN (S)	12-15-29
7	MELOTT TERREL L (S)	01-10-10
8	GREATHOUSE SHIRLEY (S)	01-10-11
9	BARD VANESSA (S)	01-10-11.1
	GREATHOUSE SHIRLEY (S)	SHOWN AS P/O 01-10-25 SHOULD BE P/O 02-10-11
10	MCMILLEN SHARON J (S)	P/a 01-10-25
11	MCMILLEN SHARON J (S)	
12	MCMILLEN SHARON J (S)	01-10-34
13	MCMILLEN SHARON J (5)	01-10-35

	THE MALLEN SHARON J (S)	01-10-51
	ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER	TAX PARCE
A	PITOSCIA WILLIAM R	12-14-27
В	PITOSCIA WILLIAM R	12-14-16
C	URBANEK SCOTT J & CHRYSTAL A	12-14-16
D	LEMASTERS H C HRS & MANKER CHARLES V REVOC LIVING TR	12-15-13
E	LEMASTERS DOLLY G EST	
F	FERRELL HANNAH RAINE & FERRELL JOSEPH ROSS	12-15-19
G	WYKERT WAYNE & ASHLEY	12-15-24
н	WOOD GLENN & TAMELA P	01-10-14
1	MUSGRAVE CHARLES & PATRICIA	01-10-09
J	MUSGRAVE CHARLES & PATRICIA	01-10-04
K	CRANE DONALD N	01-10-12
L	MCMILLEN SHARON J	USTED INCORRECTLY AS P/O 01-10-25
M	HENDERSON AMIE LEE	01-10-36
N	HENDERSON AMIE LEE	01-10-37
0	MILLER JOHN G ETAL	01-10-52
Р	MCMILLEN SHARON J	01-10-49
Q	COASTAL FOREST RESOURCES CO	01-14-03
R	FLEMING DEAN & ETAL	01-10-48
S	MCCRAY LINDA ETAL	01-10-33
T	WYKERT ERIC D	01-10-23
U	MELOTT TERREL LEMOYN	01-10-22
V	LEMASTERS HAROLD E & BETTY L	12-15-32
W	BROWN SANDY K	12-15-27
X	CHRISTY MICHAEL M JR ETAL & HALL SUSAN	12-15-26
Y	CHRISTY MICHAEL M JR ETAL & HALL SUSAN	12-15-25

04/21/2023

REVISIONS:	COMPANY:	SWN Production Company, LLC	SV Production C	Ompany™
	OPERATOR'S WELL #: 47-1	WILLIAM RITCHEA	WTZ	DATE: 04-12-2023 DRAWN BY:J.COCKERHAM
2:\2023 BACKUPS\1-02-23 DJ\SWW\V	DISTRICT: PROCTOR	COUNTY: WETZEL	STATE: WV	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 -

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

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

See Exhibit "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:	enn
Its:	Staff Landman

RECEIVED Office of Oil and Gas

APR 1 8 2023

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Company (Company) (Compa Wetzel County, West Virginia

	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	interest Not Leased by 5WI Production Company, LLC
1	12-15-21	William D. Ritchea and Shirley E. Ritchea, husband	Mobay Chemical Corporation	12.50%	60A/59	0.0000%
ı		and wife Bayer Corporation, successor in interest to Mobay	Bayer MaterialScience LLC		396/1	
		Chemical Corporation	object trotal and a line and		330/1	
,		Bayer Material-Science LLC	Chesapeake Appalachia, LLC		140A/883	
		Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc. (now Equinor		120A/109	
		Chesapeake Appalachia, LLC	USA Onshore Properties, Inc.) SWN Production Company, LLC		157A/540	
	ŀ	Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder LLC (now SWN Production		158A/801	
			Company LLC)			
2	12-15-22		Mobay Chemical Corporation	15.00%	62A/309	0.0000%
		Edward Shiben, as Executors under the Wills of Joseph Shiben and Minnie Shiben, and Shiben Estates,				!
		Inc.				
		Mobay Chemical Corporation	Haddad and Brooks, Inc.		65A/67	
		Haddad and Brooks, Inc.	Sun Exploration and Production Company		65A/195	
,	1	Haddad and Brooks, Inc. Sun Exploration and Production Company	Natmin Development Corporation		67A/516	
		Sun Operating Limited Partnership	Sun Operating Limited Partnership Haddad and Brooks, Inc.		69A/328 69A/600	
	1	Sun Operating Limited Partnership, by Sun	Haddad and Brooks, Inc.		70A/265	
		Exploration and Production Company, as its managing	,		,	
		general partner	Maddad and managers to the		[<u>_</u>	
		Natmin Development Corporation Haddad and Brooks, Inc.	Haddad and Brooks, Inc. Chesapeake Appalachia, LLC		71A/593	
]	Chesapeake Appalachia, LLC	Haddad and Brooks, Inc.		102A/302 113A/927	
	1	Chesapeake Appalachia, LLC	SWN Exchange Titleholder LLC (now SWN Production		157A/S40	
	l	Haddad and Brooks Inc.	Company LLC)			
	 	Haddad and Brooks, Inc. Arthur Liston, Donald J.Kisner, Lonzo Dolin,	SWN Production Company, LLC Mobay Chemical Corporation	12.50%	250A/215	
		HerbertHeeter, Amos McPeak, Jr., George Dent, Jack	Thomas Corporation	12.50%	62A/294	
		Nice, LeeMcCoy and Ernest Dent				
		Mobay Chemical Corporation	Haddad and Brooks, Inc.		65A/67	1
]	Haddad and Brooks, Inc.	Sun Exploration and Production Company		65A/19S	
		Haddad and Brooks, Inc. Sun Exploration and Production Company	Natmin Development Corporation Sun Operating Limited Partnership		67A/516 69A/328	
	ĺ	Sun Operating Limited Partnership	Haddad and Brooks, Inc.		69A/600	
		Sun Operating Limited Partnership, by Sun	Haddad and Brooks, Inc.		70A/265	
		Exploration and Production Company, as its managing				
		general partner Natmin Development Corporation	Haddad and Brooks, Inc.		71A/593	ļ
		Haddad and Brooks, Inc.	Chesapeake Appalachia, LLC		102A/302	
	1	Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc. (now Equinor		120A/109	1
	Į.		USA Onshore Properties, Inc.)			
	1	Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		157A/540	
		Staton OSA Offshore Properties Inc.	SWN Exchange Titleholder LLC (now SWN Production Company LLC)		158A/801	
' -		Albert G. Smith and Lillian Smith, husband and wife	Mobay Chemical Corporation	12.50%	64A/641	1
		Mobay Chemical Corporation	Haddad and Brooks, Inc.		6SA/67	
	1	Haddad and Brooks, Inc.	Sun Exploration and Production Company		65A/195	j
		Haddad and Brooks, Inc.	Natmin Development Corporation		67A/516	
		Sun Exploration and Production Company	Sun Operating Limited Partnership		69A/328	
		Sun Operating Umited Partnership Sun Operating Limited Partnership, by Sun	Haddad and Brooks, Inc. Haddad and Brooks, Inc.		69A/600 70A/265	
	1	Exploration and Production Company, as its managing	· ·		,070,203	1
	1	general partner]		1	
	1	Natmin Development Corporation	Haddad and Brooks, Inc.		71A/593	
	1	Haddad and Brooks, Inc. Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC		102A/302	
	1	Emerapeant Appaidulité, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)	1	120A/109	
	1	Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Statoff USA Onshore Properties Inc.	SWN Exchange Titleholder LLC (now SWN Production		158A/801	
	 	Fred C. Smith and Imogene Smith, husband and wife	Company LLC) Mobay Chemical Corporation	12.50%	64A/643	4
			Tribuly Circlinear Corporation	12.30%	0477043	
		Mobay Chemical Corporation	Haddad and Brooks, Inc.		65A/67	
		Haddad and Brooks, Inc. Haddad and Brooks, Inc.	Sun Exploration and Production Company Natmin Development Corporation		65A/195 67A/516	ļ.
		Sun Exploration and Production Company	Sun Operating Limited Partnership		69A/328	i
		Sun Operating Limited Partnership	Haddad and Brooks, Inc.		69A/600	
		Sun Operating Limited Partnership, by Sun	Haddad and Brooks, Inc.		70A/265	
		Exploration and Production Company, as its managing	B]			
		general partner Natmin Development Corporation	Haddad and Brooks, Inc.		71A/593	
		Haddad and Brooks, Inc.	Chesapeake Appalachia, LLC		102A/302	
		Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc. (now Equinor		120A/109	
	1	Channally Americally 440	USA Onshore Properties, Inc.)		04	/21/2023
	1	Chesapeake Appalachia, LLC	SWN Production Company, ELC	Ī	157A/540	112020
			SWN Exchange Titleholder LLC Inou \$1800 Broduction		1594/901	
		Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder LLC (now SWN Production Company LLC)		158A/801	
<u></u>			Company LLC)	12.50%	158A/801 64A/639	

APR 1 8 2023

EXHIBIT "A"

WV Department of

Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Comparign Liquidae Oile Parallel County, West Virginia

Hedde and Blooks, Nr. Lendard and Blooks, Nr. Lendard and Blooks, Nr. Lendard and Blooks of Production Company, Sen Sparration and Production Company, Sen Sparration and Production Company, as Its manager general names. Header and Blooks, Nr. Chrospeake Appoints, LLC Stract LLS Chrospeake							
Installation and floration, Inc. One Degree little of Production Commany. Since Operating Vinited Printership by San Printership and Production Commany. Figure 1997.	t	le	laddad amd Basalia Jaa	Com Conference and Broduction Company	1	658/195	
Size Diploments and Production Company. Size Company of Company o			-	· · · · · · · · · · · · · · · · · · ·			
Son Operating Windler Percensity, by San Autorities of Percensity, by San Autorities on and Production Company, is to manager (Manish Percensity Percensity), by San Autorities of Percensity (Manish Percensity Percensity), by San Autorities of Percensity (Manish Percensity), by San Autorities of Percensity (Manish Percensity), San Autorities and Percensity, San Autorities	ľ	1	•	· · · · · · · · · · · · · · · · · · ·			
Son Operating United Personality In San Emission Enforcation and Production Company, as is minespire personal comment Headded and Enterior, Corporation Headded and Enterior, Enterior Consequence Appailability, LLC Christopher Appailability, LLC Chr		1		· -			
Isolarization and Production Company, as 10 manages prescrib commer Nation Condeposit, Congression White Consequence Application, LLC Chasepeaks Application, LLC Chasepeak Application, LLC Chasepeaks Application, LLC Chasepeak Applica	ŀ			,			
memoral neutron Chosepane Agraphische, LLC Chose	i		1	mangao ang Brooks, INC.	l	/UM/200	
Assistant Development Comparation Headed and Products June Charapsonia Appaich LLC Charapsonia Appaich					1		
Headed and foreign. Inc. Cheseparth Againsthia, LC Cheseparth Againsthia, LC Cheseparth Againsthia, LC Cheseparth Againsthia, LC Shared IUS A Chember Properties Inc., Ellow Egalow Use of Cheseparth Againsthia, LC Shared IUS A Chember Properties Inc. Hugh Sinder and Garnet Solider, Inchand and wile Widew Y Central Carporation Hudder of Modes, Inc. Hudder and Modes,	1					71.4 (000	
Oncupane Appailachia, LLC Chossape Appailachia, LLC Shift Production Company, LLC Adely Technology of the Chossape Appailachia, LLC Shift Production Company, LLC Adely Chossape Appailachia, LLC Shift Production Company, LLC Adely Chossape Appailachia, LLC Chossape Appailachia, LLC Chossape Appailachia, LLC Shift Shift Shift Chossape Appailachia, LLC Shift Shif			·	·	i		
Chaspeake Againstria, LLC Statiol USC Christope Properties Inc. Shaff Ollows Properties, Inc.) Mobby Chemical Corporation Mobby Chemical Corporatio	l		· · · · · · · · · · · · · · · · · · ·	•			
Chaspeake Ageidation, LLC Stated USA Online Properties Inc. With Production Company, LLC STATE Charges Technique LLC (now SWN Production STATE Charges Charge		K	Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc. (now Equinor	Ī	120A/109	
Station USA Circinoter Procured in Inc. SWM Extranger Titlerioder LLC (now SWM Production Company) Mobiley Chemical Corporation Neddod and Brooks, Inc. Operating United Partnership, by Jun Exploration and Production Company, is its managing neored partner Neddod and Brooks, Inc. Neddod and Br		l l		USA Onshore Properties, Inc.)	- 1		
Sequence of the control of the contr		įc	Thesapeake Appalachia, LLC	SWN Production Company, LLC		-	
Mobiley Chemical Companion Mobiley Chemical Companion Mobiley Chemical Companion Mobiled and Brooks, Inc. Sun Epidemion and Production Company, Sun Operating Limited Princership, by Sun Journal Companion Mobile Chemical State (1998) Mobiled State (1998) M		s	itatoil USA Onshore Properties Inc.	SWN Exchange Titleholder LLC (now SWN Production	1	158A/801	
Mobby Chemical Corporation Hadded and Brooks, Inc. MacRed and Brooks, Inc. MacRed and Brooks, Inc. MacRed and Brooks, Inc. Son Operating United Partnership Sun Operating United Partnership, by Sun Equiposition and Production Company, in its managing internal partner MacRed and Brooks, Inc. Chesspeaks Appaichs, ILC Chesspeaks Appaichs, ILC State USA Onthore Properties Inc. MacRed and Brooks, Inc. Chesspeaks Appaichs, ILC State USA Onthore Properties, Inc. MacRed and Brooks, Inc. MacRed M				Company LLC)			
Sen Espheration and Production Company, Madded and Strooks, Inc. Sen Espheration and Production Company, set its manuality of the Company Company, set its manuality of the Company, set its ma			lugh Snider and Garnet Snider, husband and wife	Mobay Chemical Corporation	12.50%	64A/645	
Sen Espheration and Production Company, Madded and Strooks, Inc. Sen Espheration and Production Company, set its manuality of the Company Company, set its manuality of the Company, set its ma	ļ .			1		i i	
Is addied and de procision company San Ciperating United Partnership, by San Ciperating United Partnership, by San Concept United Partnership, by San Concept Interest Partnership, San Concept Interest Partnership, by San Experiment and Production Company, as it is making interest Partnership, by San Experiment and Production Company, as it is making interest Partnership, by San Experiment and Production Company, as it is making interest Partnership, by San Experiment and Production Company, as it is making interest Partnership, by San Experiment and Production Company, as it is making interest Partnership, by San Experiment and Production Company, as it is making interest Partnership, by San Experiment and Production Company, as it is making interest Partnership, by San Experiment and Production Company, as it is making interest Partnership, by San Experiment and Production Company, as it is making interest Partnership, by San Experiment and Production Company, as it is making interest Partnership, by San Experiment and Production Company, as it is making interest Partnership, by San Experiment and Production Company, as it is making interest Partnership, by San Experiment and Production Company, as it is making interest partnership, son Company, as it is making interest. In the company, as it is making interest. In the company is in Company, as it is making interest. In the company is in Company, as it is making interest. In the company is in Company is in Company, as i		ļ.	Mobay Chemical Corporation	Haddad and Brooks, Inc.		65A/67	
Sun Capitalities and Production Company Sun Operating Limited Partnership Natural Development Corporation Hadded and Production Company Sun Sun Operating Limited Partnership Hadded and Stroks, Inc. Chesapeake Appalachis, LLC Chesapeake Appalachis, LLC Strotol ISA Orochere Properates Inc. Chesapeake Appalachis, LLC Strotol ISA Orochere Properates Inc. Swift Each Properates Inc. Hadded and Stroks, Inc. Hadded and Mooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership, Sun Departing Limited Partnership, Sun Departing Limited Partnership, Sun Departing Limited Partnership Sun Operating Limited Partnership, Sun Departing Limited Partnership, Sun Departing Limited Partnership, Sun Departing Limited Partnership Sun Operating Limited Partnership Sun Operating Limited Partnership Sun Operating Limited Partnership, Sun Departing Limited Partnership, Sun Department and Production Company Nature Development Corporation National Active Partnership Sun Operating Limited Partnership, Sun Department and Production Company, Sun Department Limited Partnership, Sun D		+	laddad and Brooks, Inc.	Sun Exploration and Production Company		65A/195	
Son Operating United Partnership, by Son Exploration and Production Company, as its managing production and Production Company, as its managing production and Production Company as its managing production and Production Company as its managing production and Production Company as its managing production Company and Production Company an)+	Haddad and Brooks, Inc.	Natmin Development Corporation		67A/516	
Son Operating Limited Partnership, by Son Sciproration and Production Company, as 1ts managing proper dustrice in the Company as 1ts managing properties in the Company and the Company as 1ts managing properties in the Company and the Company as 1ts managing properties in the Company as 1ts properti				Sun Operating Limited Partnership		69A/328	
Sun Operating Limited Partnership, by Sun Europiacids and Profuse, Inc. Company at Its managing general authors and Profuse Company at Its Managing and Profuse Company (LC) Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Station LISA Orbitore Properties Inc. LISA Orbitore Properties, Inc. LISA Orbitore Pr						69A/600	
Exploration and Production Company, as its managing elemental particles and services, inc. Chasequade Appalachia, LLC Storal LSA Combore Properties, Inc.) Synthetic Production Company, LLC Synthetic Properties, Inc.) White Chapter Intelligence and Betty Lee Lematiser, Mobility Chapter LLC (prov SWN Production Company), LLC Synthetic Properties, Inc.) Synthetic Companish Appalachia, LLC Chasequade Appalachia, LLC Synthetic Properties, Inc.) Synthetic Companish Production Company, LLC Synthetic Properties, Inc.) Synthetic Companish Production Company, LLC Synthetic Properties, Inc.) Synthetic Companish Production Company, LLC Synthetic Properties, Inc.) Synthetic Companish						70A/265	
Record partner Nation Development Corporation National and Brooks, Inc. Chespeake Applachis, ILC Strott USA Onhore Properties inc. Sim Education Mobile Properties inc. No Mobile Properties inc.		II.	· -	-			
in Nation Development Corporation Hidded and Brooks, Inc. Orlesspeake Appliabilis, LLC Orlesspeake Appliabilis, LLC Orlesspeake Appliabilis, LLC Statiol USA Ornshore Properties, Inc. Statiol USA Ornshore Properties, Inc. Statiol USA Ornshore Properties inc. Organization of Properties inc. Organization USA Ornshore Properti		1					
Understand and throoks, Inc. Chesspeake Appalachia, ILC Stated USA Onshore Properties, Inc. I Stated USA Onshore Properties, Inc. I Stated Stayme Lemasters and Bethy Lee Lemasters, Number of Company (L) Company	- 1			Haddad and Brooks, Inc		71A/593	
Chesapeake Appalachia, LLC Chesapeake Appalachia	l			· .	ļ		
Onesapeake Appalachia, LLC State U.SA Conshore Properties Inc. State U.S. Conshore Properties Inc. State State U.S. Conshore Properties Inc. State State U.S. Constant Inc. Hadded and Brooks, Inc. Hadded and Brooks, Inc. San Exploration and Production Company San Operating United Partnership, by San Lephratine and Production Corporation Hadded and Brooks, Inc. Onesapeake Appalachia, LLC State U.S. Conshore Properties Inc. Onesapeake Appalachia, LLC State U.S. Conshore Properties Inc. State State Out San Constant Inc. Onesapeake Appalachia, LLC State U.S. Conshore Properties Inc. State State Out San Constant Inc. Onesapeake Appalachia, LLC State U.S. Constant Inc. Onesapeake Appalachia, LLC Onesapeake Appalachia, LLC Onesapeake Appalachia, LLC State U.S. Constant Inc. Onesapeake Appalachia, LLC Onesapeake Appalachia,	ı		-		i		
Chesapeake Appalachia, LLC Savol USA Onshore Properties inc. Savol Explanation and Production Company Savo Operating Limited Partnership, by Saro Exploration and Production Company, sat or managing spend a partie (Intelled Partnership) Savo Operating Limited Partnership, by Saro Exploration and Production Company, sat or managing spend a partie (Intelled Partnership) Savo Operating Limited Partnership, by Saro Exploration and Production Company, sat or managing spend a partie of the Savol USA Onshore Properties inc. Onsapeake Appalachia, LLC Savol USA Onshore Properties inc. Savol Exploration and Production Company, LLC Savol USA Onshore Properties inc. Savol Exploration and Production Company, LLC Savol USA Onshore Properties inc. Savol Exploration and Production Company, LLC Savol USA Onshore Properties inc. Savol Exploration and Production Company, LLC Savol USA Onshore Properties inc. Savol Exploration and Production Company, LLC Savol USA Onshore Properties inc. Savol Exploration and Production Company, LLC Savol USA Onshore Properties inc. Savol Exploration and Production Company, LLC Savol USA Onshore Properties inc. Savol Exploration and Production Company, LLC Savol USA Onshore Properties inc. Savol Exploration and Production Company, LLC Savol USA Onshore Properties inc. Savol Exploration and Production Company, LLC Savol USA Onshore Properties inc. Savol Exploration and Production Company, LLC Savol USA Onshore Properties inc. Savol Exploration and Production Company, LLC Savol USA Onshore Properties inc. Savol Production Company, LLC Savol USA Onshore Properties inc. Savol Exploration and Production Company, LLC Savol USA Onshore Properties inc. Savol Production Company, LLC Savol USA Onshore Properties inc. Savol Production Company, LLC Savol USA Onshore Properties		ľ	aresopeane reproduction and	1			
Sarval USA Orabore Properties Inc. SMM Eachange Tetleholder LLC (now SWN Production Company LC) Harold Eigenne Lemasters and Betty Lee Lemasters, Inchaband and wife Mobby Chemical Corporation Hadded and Brooks, Inc. Chespeake Applatachia, LLC Chespeake Applatachia, LLC Strotol USA Orabore Properties Inc. Som Exploration and Production Company, as its managing several partner should be an advanced to the properties inc. Hadded and Brooks, Inc. Chespeake Applatachia, LLC Strotol USA Orabore Properties, Inc. (now Equinor USA Chalhore Properties, Inc.) Hadded and Brooks, Inc. Hadded and Brooks, Inc. Fred A. Heeter and James K. Heeter, husband and wife, Frank E. Heeter and Rabben D. Heeter, husband and wife, Frank E. Heeter and Rabben D. Heeter, husband and wife, Frank E. Heeter and Rabben D. Heeter, husband and wife, Frank E. Heeter and Rabben D. Heeter, husband and wife, Frank E. Heeter and Rabben D. Heeter, husband and wife, Frank E. Heeter and Rabben D. Heeter, husband and wife, Frank E. Heeter and Rabben D. Heeter, husband and wife, Frank E. Heeter and Rabben D. Heeter, husband and wife, Frank E. Heeter and Rabben D. Heeter, husband and wife, Frank E. Heeter and Rabben D. Heeter, husband and wife, Frank E. Heeter and Rabben D. Heeter, husband and wife, Frank E. Heeter and Rabben D. Heeter, husband and wife, Frank E. Heeter and Rabben D. Heeter, husband and wife, Frank E. Heeter and Rabben D. Heeter, husband and wife and Brooks, Inc. Haddad and Brooks, Inc. San Exploration and Production Company as its managing general partner. Namin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Stroto USA Onabore Properties inc. San Exploration Company San Departies inc. San Exploration Company San Departies inc. Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Stroto USA O		I.	Characaska Arealachia III C	·		1578/540	
Hardolf Eugene Lemasters and Betry Lee Lemasters, Mobay Chemical Corporation Nobay Chemical Corporation Haddad and Swooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership, by Sun Designating Limited Partnership, by Sun Designation and Brooks, Inc. Chesapeake Appalachia, LLC Station LISA Onthore Properties, Inc. Chesapeake Appalachia, LLC Saval Exploration and Production Company Sun Operating Limited Partnership, by Sun Sun Designation and Production Company Sun Designation and Production Company Sun Designation and Production Company Sun Operating Limited Partnership, by Sun Sun Designation and Production Company Sun Operating Limited Partnership, by Sun Sun Designation and Production Company Sun Operating Limited Partnership, by Sun Sun Designation and Production Company, as its managing Semenal partner Milliam G. Sheppard and Virgins S. Sheppard. Numbered and wife Appalachia, LLC Station LISA Onthore Properties, Inc. Chesapeake Appalachia, LLC Station LISA Onthore Properties, Inc. Chesapeake Appalachia, LLC Station LISA Onthore Properties, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership, by Sun Sun Designation and Production Company, as its managing Semenal partner Note of the Sun Sun Operating Limited Partnership, by Sun Su	l l						
Harold Eugene Lemesters and Betty Lee Lemasters, Nobay Chemical Corporation 12,50% 65A/54	ı	ļ ^s	ocaton upa Unsnore Properties Inc.		1	TAMAMI	
Madada and Brooks, Inc. Haddada and Brooks, Inc. Sun Exploration and Production Company, Sun Operating Limited Partnership, Sun Operating Limited Partnershi			11P		13.50%	EE 4 72 -	
Mobay Chemical Carporation Haddad and Brooks, Inc. Haddads 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 partnership Carporation and Production Company, as its managing general partnership Carporation Chespeake Appalachia, LLC Chespeake Appalachia, LLC Statell USA Onthore Properties Inc. Feed A. Heeter and Jamet K. Heeter, hubband and dwff, rank E. Heeter and Rahet I. Heeter, hubband and dwff, rank E. Heeter and Rahet I. Heeter, hubband and dwff, rank E. Heeter and Rahet I. Heeter, hubband and dwff, rank E. Heeter and Rahet I. Heeter, hubband and dwff, rank E. Heeter and Rahet I. Heeter, hubband and dwff, rank E. Heeter and Rahet I. Heeter, hubband and dwff, rank E. Heeter and Rahet I. Heeter, hubband and dwff, rank E. Heeter and Rahet I. Heeter, hubband and dwff, rank E. Heeter and Rahet I. Heeter, hubband and dwff, rank E. Heeter and Rahet I. Heeter, hubband and dwff, rank E. Heeter and Robin D. Heeter, hubband and dwff. Haddad and Brooks, Inc. San Exploration and Production Company, San Operating Limited Partnership, by Sun Exploration and Production Company, as its managing seneral partner Nation Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statol USA Onthore Properties, Inc. (now Equinor USA Onthore Properties, Inc. (now Equ	ı		-	Moday Chemical Corporation	12.50%	PC/ACO	
Haddad and Brooks, Inc. Haddad and Brooks, Inc. San Exploration and Production Company, Son Operating Limited Partnership Son Operating Limite	ı			l., .,		£5 4 15 7	
Hadded and Brooks, Inc. Sin Exploration and Production Company, Sin Operating Limited Partnership Hadded and Brooks, Inc. Exploration and Production Company, as its managine general partner Natmin Development Corporation Hadded and Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Stated LUSA Orshore Properties, Inc. (Inow Equinor Lizo/A)22 San Deversing Extrement Corporation Hadded and Brooks, Inc. Chesapeake Appalachia, LLC Stated LUSA Orshore Properties, Inc. (Inow Equinor Lizo/A)23 San Exploration and Production Company, Lus San Exploration and Well, Frank E, Heeter and Robin D, Neeter Insuband and wife, Frank E, Heeter and Robin D, Neeter Insuband and wife, Inc. San Exploration and Production Company, Lus San Marchia, Lus San Exploration And Production Company, Lus San Explor				· ·			
Sun Exploration and Production Company Sun Operating Limited Partnership Hadded and Brooks, Inc. Onespeeke Appalachia, LLC Onespeeke Appalachia, LLC Statiol LISA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) Syn Production Company, Syn Exchange Trishnolder LLC (now SWN Production Syn Production Company Syn Exchange Trishnolder LLC (now SWN Production Syn Production Company Syn Operating Limited Partnership Syn Operating Limited Partnership Syn Operating Limited Partnership Syn Operating Limited Partnership Hadded and Brooks, Inc. Chespeeke Appalachia, LLC Statiol LISA Onshore Properties Inc. Syn Exploration and Production Company Syn Operating Limited Partnership Syn Operating Limited Partnership Hadded and Brooks, Inc. Chespeeke Appalachia, LLC Statiol LISA Onshore Properties Inc. Syn Exploration and Production Company Syn Operating Limited Partnership Hadded and Brooks, Inc. Chespeeke Appalachia, LLC Statiol LISA Onshore Properties Inc. Syn Exploration and Production Company Syn Operating Limited Partnership Hadded and Brooks, Inc. Chespeeke Appalachia, LLC Statiol LISA Onshore Properties Inc. Syn Operating Limited Partnership Hadded and Brooks, Inc. Chespeeke Appalachia, LLC Statiol LISA Onshore Properties Inc. Syn Operating Limited Partnership Hadded and Brooks, Inc. Syn Operating Limited Partnership Hadded and Brooks, Inc. Chespeeke Appalachia, LLC Syn Development Corporation Hadded and Brooks, Inc. Chespeeke Appalachia, LLC Syn Development Corporation Hadded and Brooks, Inc. Chespeeke Appalachia, LLC Syn Development Corporation Hadded and Brooks, Inc. Chespeeke Appalachia, LLC Syn Development Corporation Hadded and Brooks, Inc. Chespeeke Appalachia, LLC Syn Development Corporation Hadded and Brooks, Inc. Chespeeke Ap		l'	Haddad and Brooks, Inc.				
Sun Operating Limited Partnership Nation Development Corporation Haddad and Brooks, Inc. Ohesapeake Appallachia, LLC Statoli USA Onshore Properties, Inc. Ohesapeake Appallachia, LLC Statoli USA Onshore Properties, Inc. Statoli USA Onshore Properties, Inc. Sun Exploration and Production Company, Statoli USA Onshore Properties, Inc. Sun Exploration and Production Company, Statoli USA Onshore Properties, Inc. Sun Exploration and Production Company, Statoli USA Onshore Properties, Inc. Sun Exploration and Production Company, Statoli USA Onshore Properties, Inc. Sun Exploration and Production Company, Statoli USA Onshore Properties, Inc. Sun Exploration and Production Company, Statoli USA Onshore Properties, Inc. Sun Exploration and Production Company, Statoli USA Onshore Properties, Inc. Sun Exploration and Production Company, Statoli USA Onshore Properties, Inc. Sun Exploration and Production Company, Statoli USA Onshore Properties, Inc. Sun Exploration and Production Company, Statoli USA Onshore Properties, Inc. Sun Exploration and Production Company, Statoli USA Onshore Properties, Inc. Sun Exploration and Production Company, Statoli USA Onshore Properties, Inc. Sun Exploration and Production Company, Sun Operating Limited Partnership, Sun Operating Limited Part	1	Į!	Haddad and Brooks, Inc.	Natmin Development Corporation		· ·	
Sun Operating Limited Partnership, by Sun Laploration and Production Company, as its managing seneral partner Nathrin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statell USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) Syn Production Company, LLC Statell USA Onshore Properties, Inc.) Syn Production Company, LLC Statell USA Onshore Properties, Inc.) Syn Production Company, LLC Statell USA Onshore Properties, Inc.) Syn Production Company, LLC Syn Exploration and wife, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership, by Sun Exploration and Production Company, Sun Operating Limited Partnership, Syn Operat			Sun Exploration and Production Company	Sun Operating Limited Partnership			
Exploration and Production Company, as its managing exercil partner Natimin Development Corporation Haddad and Brooks, inc. Chesapeake Appalachia, LLC Statoli USA Onshore Properties Inc. Chesapeake Appalachia, LLC Statoli USA Onshore Properties Inc. SWN Erobaction Company, LLC Statoli USA Onshore Properties Inc. SWN Erobaction Company, LLC Statoli USA Onshore Properties Inc. SWN Erobaction Company, LLC STATOLI Company, LLC SWN Production Company, LLC SWN Erobaction Company, LLC SWN Erobaction Company, LLC SWN Erobaction Company, LLC SWN Erobaction Company Swn Operating Limited Partnership Swn Operating Limited	Į.	ļ:	Sun Operating Limited Partnership	Haddad and Brooks, Inc.			
Reineral bathers Namim Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Unsequeke Appalachia, LLC Statoli USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc.) Synn Production Synn Exchange Triebolder LLC (now SWN Production Company LLC) Freed, A. Heeter and Jamet K. Heeter, husband and wife, Frank E, Heeter and Robin D. Heeter, truband and wife, and Thomas R. Heeter and Robin D. Heeter, truband and offer, and Thomas R. Heeter and Robin D. Heeter, truband and and wife. And Thomas R. Heeter and Robin D. Heeter, truband and and wife. And Thomas R. Heeter and Robin D. Heeter, truband and and wife. And Thomas R. Heeter and Robin D. Heeter, truband and and wife. Synn Operating United Partnership Haddad and Brooks, Inc. Synn Exploration and Production Company Synn Operating United Partnership Synn Operating United Partnership Synn Operating United Partnership Synn Operating United Partnership Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc.) Synn Production Company, LLC Haddad and Brooks, Inc. Synn Production Company Synn Operating United Partnership Synn Operating United Par		l:	Sun Operating Limited Partnership, by Sun	Haddad and Brooks, Inc.		70A/265	
Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, ILC Statoll USA Ombroe Properties, Inc. (now Equinor USA Ombroe Properties, Inc.) 120A/109 120A/1		l l	Exploration and Production Company, as its managing	;i			
Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc.) SWN Exchange Trieholder LLC (now SWN Production Company, LLC SWN Exchange Trieholder LLC (now SWN Production Company, LLC SWN Exchange Trieholder LLC (now SWN Production Company, LLC SWN Exchange Trieholder LLC (now SWN Production Company, LLC SWN Exchange Trieholder LLC (now SWN Production Company, LLC SWN Exchange Trieholder LLC (now SWN Production Company, LLC SWN Exchange Trieholder LLC (now SWN Production Company, LLC SWN Exploration and Production Company, SWn Operating Limited Partnership, Dy Sun Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statol USA Onshore Properties, Inc. Chesapeake Appalachia, LLC Statol USA Onshore Properties, Inc. SWN Exchange Trieholder LLC (now SWN Production Company, SWN Cathange Trieholder LLC (now SWN Production Company, SWN Cathange Trieholder LLC (now SWN Production Company, SWN Cathange Trieholder LLC (now SWN Production Company, SWN Operating Limited Partnership, SWN Operating Limited Partnership, SWN Cathange Trieholder LLC (now SWN Production Company, SWN Operating Limited Partnership, SWN Cathange Trieholder LLC (now Equinor USA) (now Equino	•	1	general partner			i	
Chesapeake Appaiachia, LLC Chesapeake Appaiachia, LLC Statoil USA Onthore Properties, Inc. Sinch of Managery (LC) Chesapeake Appaiachia, LLC Statoil USA Onthore Properties, Inc. SWN Exchange Triteholder LLC (now SWN Production Company LLC) Red A Heeter and Janet K. Heeter, husband and wife, Prank E. Heeter and Rathleen J Heeter, husband and wife, Prank E. Heeter and Rathleen J Heeter, husband and wife, Prank E. Heeter and Rathleen J Heeter, husband and wife, Prank E. Heeter and Rathleen J Heeter, husband and wife, Prank E. Heeter and Rathleen J Heeter, husband and wife, Prank E. Heeter and Rathleen J Heeter, husband and wife, Prank E. Heeter and Rathleen J Heeter, husband and wife, Prank E. Heeter and Rathleen J Heeter, husband and wife, Prank E. Heeter and Rathleen J Heeter, husband and wife, and Thomas R. Heeter and Robin D. Heeter, husband and wife, and Thomas R. Heeter and Robin D. Heeter, husband and wife, and Thomas R. Heeter and Robin D. Heeter, husband and Brooks Inc. Sun Exploration and Production Company Sun Operating Limited Partnership, by Sun Operating Limited Partnership, LLC Statoil USA Onshore Properties, Inc. Sun Exploration and Production Company, LLC Sun Exploration and Production Company, LLC Sun Exploration and Production Company, Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration and Production Company, Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration and Production Company, Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration and Production Company, Sun Operating Limited Partnership Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Sun Exploration and Production Company, Sun Operating Limited Partnership Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Sun Exploration and Production Company, Sun Operating Limited Partnership Haddad		Ī	Natmin Development Corporation	Haddad and Brooks, Inc.		71A/593	
Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc.) SWN Production Company, LLC Statoli USA Onshore Properties inc. SWN Exchange Titleholder LLC (now SWN Production Company, LLC Fred A. Heeter and Rahmer K. Heeter, husband and wife, Frank E. Heeter and Kahtheen J. Heeter, husband and wife, and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and thomas R. Heeter and Robin D. Heeter, husband and wife and thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and the properties and thomas R. Heeter and Robin D. Heeter husband and wife and thomas R. Heeter and Robin D. Heeter, husband and wife and thomas R. Heeter and Robin D. Heeter husband and wife and Robin R. L. Sanoti USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) William G. Sheppard and Virginia S. Sheppard, husband and Wife and Robin R. Heeter R. Heeter R. Sanoti R. Heeter R. Heeter R. Sanoti R. Heeter R. Heete		l l	Haddad and Brooks, Inc.	Chesapeake Appalachia, LLC		102A/302	
Chesapeake Appalachia, ILC Statoil USA Onshore Properties. Inc.] SWN Exchange Titleholder LLC (now SWN Production Company LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC) ### Added and Brooks Inc. ### Sun Caperating United Partnership Sun Operating United Partnership Statoil USA Onshore Properties, Inc.] **Operating United Partnership Statoil USA Onshore Properties, Inc.] **William G. Sheppard and Virginia S. Sheppard, husband and wife Haddad and Brooks, Inc. **Sun Exploration and Production Company, Sun Operating United Partnership Sun Operating United Partnership Sun Operating United Partnership, Vy Sun Exploration and Production Company, LtC **Sun Exploration and Production Company, sun Operating United Partnership Sun Operating United Partnership, Sun Operating United Partnership Sun Operating United Partnership, Sun Operating United Partnership			•			120A/109	
Chesapeake Appalachia, LLC Statoli USA Onshore Properties inc. SWN Production Company, LLC 158A/801 Company LLC) Fred A. Heeter and Janet K. Heeter, husband and wife, Frank E. Heeter and Robin D. Heeter, husband and wife, Frank E. Heeter and Robin D. Heeter, husband and wife, Frank E. Heeter and Robin D. Heeter, husband and wife, Frank E. Heeter and Robin D. Heeter, husband and wife, Frank E. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and wife and Thomas R. Heeter and Robin D. Heeter, husband and Brooks, inc. Sun Exploration and Production Company Sun Operating Limited Partnership, by Sun Exploration and Brooks, inc. Exploration and Brooks, inc. Haddida and Brooks, inc. Chesapeake Appalachia, LLC Sun Production Company, LLC Statol USA Onshore Properties, Inc.) William G. Sheppard and Virginia S. Sheppard, husband and wife Haddidad and Brooks, inc. Sun Exploration and Production Company Sun Operating Limited Partnership by Sun Exploration and Production Company Sun Operating Limited Partnership by Sun Exploration and Production Company Sun Operating Limited Partnership by Sun Exploration and Production Company Sun Operating Limited Partnership by Sun Exploration and Production Company Sun Operating Limited Partnership by Sun Exploration and Production Company, LLC Chesapeake Appalachia, LLC Stroto USA Onshore Properties, Inc. (Inow Equinor USA Onshore Properties, Inc.) Haddidad and Brooks, Inc. Chesapeake Appalachia, LLC Stroto USA Onshore Properties, Inc. (Inow Equinor USA Onshore Properties, Inc.) Stroto USA Onshore Properties, Inc. (Inow Equinor USA Onshore Properties, Inc.) Stroto USA Onshore Properties, Inc. (Inow Equinor USA Onshore Properties, Inc.) Stroto USA Onshore Properties, Inc. (Inow Equinor USA Onshore Properties, Inc.) Stroto USA Onshore Properties, Inc. (Ino				USA Onshore Properties, Inc.)			
Statedil USA Onshore Properties Inc. SWN Exchange Titleholder LLC (now SWN Production Company LLC) Fred A. Heeter and Janet K. Heeter, husband and wife, rrank E. Heeter and Kathleen J. Heater, husband and wife, and Thomas R. Heeter and Robin D. 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 Umited Partnership Sun Operating Umited Partnership Sun			Chesapeake Appalachia, LLC			157A/540	
Fred A. Heeter and Janet K. Heeter, husband and wife, Frank E. Heeter and Robin D. Heeter, husband and wife, And Thomas R. Heeter and Robin D. Heeter, husband and wife, Maddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Sun Exploration and Production Company, Sun Operating Limited Partnership Sun Operating Limited Partner						158A/801	
Fred A. Heeter and Janet K. Heeter, husband and wife, Frank E. Heeder and Kathleen J. Heterter, 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 Haddbad and Brooks, Inc. Sun Exploration and Production Company 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 Statoll USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc. (now Equi		Ľ	State of Control of Control of Control	1 * '			
wife, Frank E, Heeter ad Kathleen L Heater, husband and wife, and Thomas R. Heeter and Robin D. Neeter, husband and wife and Brooks, Inc. Sun Exploration and Production Company Sun Operating United Partnership Sun Operating United Partnership Haddad and Brooks, Inc. Exploration and Production Company son Operating United Partnership, by Sun Exploration and Production Company, as its managing seneral partner Naturin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc. (now Equinor UsaA) William G. Sheppard and Virginia S. Sheppard, husband and wife Haddad and Brooks, Inc. William G. Sheppard and Virginia S. Sheppard, husband and wife Natural Production Company, LCC Sun Exploration and Production Company, Sun Exploration and Production Company, UCC Sun Exploration and Production Company, Sun Exploration and Production Company, Sun Operating United Partnership Sun Operating United Partnership Natural Production Company, Sun Operating United Partnership Haddad and Brooks, Inc. Sun Exploration and Production Company, Sun Operating United Partnership Haddad and Brooks, Inc. Sun Exploration and Production Company, Sun Operating United Partnership Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc. (now Equinor UsaA) Sun Operating United Partnership, by Sun Exploration and Production Company, Sun Operating United Partnership Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc. (now Equinor UsaA) Statoli USA Onshore Properties Inc. Sun Exploration And Production Company, Sun Operating United Partnership Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc. (now Equinor UsaA) Sun Operating United Partnership Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc. (now Equinor UsaA) Sun Operating United Partnership Haddad and Brooks, Inc. Sun Exploration And Production Company, LLC Sun Explorat	-		Fred A. Hantor and Janet V. Heeter, husband and		12.50%	65A/293	
and wife, and Thomas R. Heeter and Robin D. Neeter, husband and wife Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Umited Partnership Sun Operating Umited Partnership Haddad and Brooks, Inc. Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. SWN Exchange Titleholder LLC (now SWN Production Company Sun Operating Umited Partnership Haddad and Brooks, Inc. Chesapeake Appalachia, LLC SwN Production Company, LC Statoil USA Onshore Properties Inc. SWN Exchange Titleholder LLC (now SWN Production Company Sun Operating Umited Partnership Haddad and Brooks Inc. Sun Exploration and Production Company Sun Operating Umited Partnership Haddad and Brooks Inc. Sun Exploration and Production Company Sun Operating Umited Partnership Haddad and Brooks Inc. Sun Exploration and Production Company Sun Operating Umited Partnership Haddad and Brooks Inc. Sun Exploration and Production Company Sun Operating Umited Partnership Haddad and Brooks Inc. Sun Exploration and Production Company Sun Operating Umited Partnership Haddad and Brooks Inc. Haddad and Brooks Inc. Haddad and Brooks Inc. Sun Exploration and Production Company Sun Operating Umited Partnership Haddad and Brooks Inc. Haddad and Brooks Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Exchange Titleholder LLC (now SWN Production Company LLC) 120A/109 122-00A 120A/1202 120A/109 1258/891, 1257/480 157A/540 1588/891, 1250A 12				110000000000000000000000000000000000000		, i	
husband and wife Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership, by Sun Deprating Limited Partnership, by 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.) Swift Exploration and Production Company, Swift Production Company, LC Statoil USA Onshore Properties, Inc.) William G. Sheppard and Viriginia S. Sheppard, husband and wife Haddad and Brooks, Inc. Sun Exploration and Production Company, Sun Operating Limited Partnership Sun Operating Limited Partnership Sun Operating Limited Partnership, by Sun Exploration and Production Company, Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration and Production Company, Sun Operating Limited Partnership Sun Operating Limited Partnership, by Sun Exploration and Production Company, Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration and Production Company, Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration and Production Company, Sun Operating Limited Partnership Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company, Sun Operating Limited Partnership Haddad and Brooks, Inc. Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) Til/1993 102A/302 125A/302 125A/302 125A/303 102A/303 102A/303 102A/303 102A/303 102A/303 102A/303 102A/303 102A/303 102A/304 102A/305 102A/306 102A/306 102A/306 102A/307 102A/308 102A/308 102A/308 102A/308 102A/309 102A/3	l	1					
Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partnership Haddad and Brooks, Inc. Haddad and Brooks, Inc. 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.) William G. Sheppard and Virginia S. Sheppard, husband and Wife Haddad and Brooks, Inc. Sun Exploration and Production Company USA Sun Operating Limited Partnership Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Sun Exploration and Production Company Sun Exploration and Production Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Sun Exploration, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Sun Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Sun Exploration and Production Company, LLC Statoil USA Onshore Properties, Inc.) Sun Exploration and Production Company, LLC Statoil USA Onshore Properties Inc. Sun Exploration and Production Company, LLC Statoil USA Onshore Properties Inc. Sun Exploration and Production Company LLC) Mobay Chemical Corporation Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operation Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration and Production Company			-	1			
Sun Exploration and Production Company Sun Operating Umited Partnership Sun Operating Umited 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.) William G. Sheppard and Virginia S. Sheppard, husband 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 Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Triteholder LLC (now SWN Production Company LLC) SWN Exchange Triteholder LLC (now SWN Production Company LLC) SWN Exchange Triteholder LLC (now SWN Production Company LLC) SWN Exchange Triteholder LLC (now SWN Production Company LLC) SWN Exchange			husband and wife	1			
Sun Exploration and Production Company Sun Operating Umited Partnership Sun Operating Umited 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.) William G. Sheppard and Virginia S. Sheppard, husband 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 Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Triteholder LLC (now SWN Production Company LLC) SWN Exchange Triteholder LLC (now SWN Production Company LLC) SWN Exchange Triteholder LLC (now SWN Production Company LLC) SWN Exchange Triteholder LLC (now SWN Production Company LLC) SWN Exchange			Newton and Bussia Inc	S.— Evaloration and Production Company.		564/61	
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 Statoli USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc.) Statoli USA Onshore Properties, Inc.) 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 Statoli USA Onshore Properties, Inc.) Sun Exploration and Production Company Sun Operating Limited Partnership Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc.) Sun Sploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc.) Sun Sploration Company, Limited Partnership Sun Operating Limited Partnership Sun Operating Limited Partnership, by Sun Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoli USA Onshore Properties, Inc.) Statoli USA Onshore Properties, Inc.) Sun Exploration Company, LIC Sun Exploration Company LIC Sun Exploration Compan			•				
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. (now Equinor USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) 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, LC Sun Exploration and Production Company, Sun Operating Limited Partnership, by Sun Exploration and Production Company, as its managing general partner Namin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Sun Exploration and Production Company, as its managing general partner Namin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Sun Exploration and Production Company, ILC Statoil USA Onshore Properties, Inc.) Sun Exploration and Production Company, ILC Statoil USA Onshore Properties, Inc.) Sun Exploration and Production Company, ILC Statoil USA Onshore Properties, Inc.) Sun Exploration and Production Company, ILC Statoil USA Onshore Properties, Inc.) Sun Exploration and Production Company, ILC Statoil USA Onshore Properties, Inc.) Sun Exploration and Production Company, ILC Statoil USA Onshore Properties, Inc.) Sun Exploration and Production Company, ILC Sun Exploration and Production Company, ILC Sun Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partners						· ·	
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.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration and Production Company, Sun Operating Limited Partnership Sun Operating Limited Partnership 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.) Sun Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Swn Exchange Titleholder LLC (now Equinor USA Onshore Properties, Inc.) Swn Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Swn Exploration and Production Company, LLC Statoil USA Onshore Properties, Inc.) Swn Exploration Swn Production Company, LLC Swn Exploration Swn Production Company S	l			·			
Reneral partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, ILC Chesapeake Appalachia, ILC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) Chesapeake Appalachia, ILC Statoil USA Onshore Properties, Inc.) SWN Production Company, ILC SWN Exchange Titleholder ILC (now SWN Production Company ILC) 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, ILC Statoil USA Onshore Properties, Inc.) SwN Production Company, LC) Chesapeake Appalachia, ILC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SwN Exchange Titleholder ILC (now SWN Production Company ILC) Mobay Chemical Corporation Haddad and Brooks, Inc. SwN Production Company, ILC SwN Exchange Titleholder ILC (now SWN Production Company ILC) Mobay Chemical Corporation Haddad and Brooks, Inc. Sun Exploration and Production Company Swn Exchange Titleholder ILC (now SWN Production Company ILC) SwN Exchange Titleholder ILC (now SWN Production Company ILC) SwN Exchange Titleholder ILC (now SWN Production Company ILC) SwN Exchange Titleholder ILC (now SWN Production Company ILC) SwN Exchange Titleholder ILC (now SWN Production Company ILC) SwN Exchange Titleholder ILC (now SWN Production Company ILC) SwN Exchange Titleholder ILC (now SWN Production Company ILC) SwN Exchange Titleholder ILC (now SWN Production Company ILC) SwN Exchange Titleholder ILC (now SWN Production Company ILC)				1		, VM, 703	
Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now Equinor USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder	i	1]		ļ l	
Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC SWN Exchange Titleholder LLC (now SWN Production Company, LLC) 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 Haddad and Brooks, Inc. Sun Exploration and Production Company 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 Statoil USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc.) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Exchange Titleholder LLC (n			· · · · ·	l		1 ,,,,,,,	
Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties Inc. 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 Sun Operating Limited Partnership Haddad and Brooks, Inc. 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.) SWN Production Company, LLC SWN Production Company SWN Production Company SWN Produ	1			r		'	
Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. 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 Natimin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) SWN Exchange Titleholder LLC (now SWN Production 12.50% 65A/305 65A/305 65A/305 65A/305 65A/400 65A/61 69A/528 69A/528 69A/600 70A/265 71A/593 102A/302 122A/302 122A/302 120A/109 157A/540 165A/195 157A/540 165A/195 157A/540 165A/195 157A/540 158A/801 165A/195 157A/540 158A/801 165A/195							
Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. 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 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.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. 3 12-15-23 pt. 8 Albert Ray Taylor and Carrie M. Taylor, husband and wife Mobay Chemical Corporation Haddad and Brooks, Inc. SWN Production Company Haddad and Brooks, Inc. SWN Exchange Titleholder LLC (now SWN Production Company LLC) 12-50% 12-50% 12-50% 158A/801 12			Chesapeake Appalachia, LLC	-		120A/109	
Statoil USA Onshore Properties Inc. SWN Exchange Titleholder LLC (now SWN Production Company LLC) 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 Haddad and Brooks, Inc. 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.) SWN Exchange Titleholder LLC (now SWN Production Company) 565A/305 65A/61 Sun Exploration and Production Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties, Inc.) SWN Exchange Titleholder LLC (now SWN Production Company) LC) 12.50%				1		<u> </u>	
William G. Sheppard and Virginia S. Sheppard, husband and wife Haddad and Wife Haddad and Wife Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Operating Limited Partnership Haddad and Brooks, Inc. Exploration and Production Company, Sun Operating Limited Partnership Haddad and Brooks, Inc. Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, ILC Statoil USA Onshore Properties, Inc.) Chesapeake Appalachia, ILC Statoil USA Onshore Properties, Inc.) SWN Production Company, ILC Statoil USA Onshore Properties, Inc.) SWN Production Company, ILC Statoil USA Onshore Properties Inc. SWN Production Company, ILC SWN Production Company S							
William G. Sheppard and Virginia S. Sheppard, husband and wife Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Operating Limited Partnership, by Sun Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, ILC Chesapeake Appalachia, ILC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) Chesapeake Appalachia, ILC Statoil USA Onshore Properties, Inc.) Swn Production Company, ILC Swn Production Company, ILC Swn Production Company, ILC Swn Exchange Titleholder ILC (now SWN Production Company ILC) 12.50% 65A/305 65A/67 65A/12 12.50% 65A/67 65A/195		i	Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder LLC (now SWN Production)		158A/801	
husband and wife Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partnership Haddad and Brooks, Inc. 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.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) SWN Exchange Titleholder LLC (now SWN Production Ompany, LLC) SWN Exchange Titleholder LLC (now SWN Production Ompany LLC) Albert Ray Taylor and Carrie M. Taylor, husband and wife Mobay Chemical Corporation Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partnersh						45.12	
Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partnership Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Operating Limited Partnership Sun Operating Limited Partnership Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration Limited Partnership Haddad and Brooks, Inc. Sun Exploration And Production Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration And Production Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration And Production Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration And Production Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Sun Exploration Company Sun Operating Limited Partnership Sun Operating			William G. Sheppard and Virginia S. Sheppard,	Haddad and Brooks Inc.	12.50%	65A/305	
Sun Exploration and Production Company Sun Operating Limited Partnership 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.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties Inc. 3 12-15-23 pt. 8 Albert Ray Taylor and Carrie M. Taylor, husband and wife Mobay Chemical Corporation Haddad and Brooks, Inc. Sun Operating Limited Partnership Haddad and Brooks, Inc. Haddad and Brooks, Inc. 5 494/328 694/600 70A/265 The Haddad and Brooks, Inc. 71A/593 102A/302 120A/109 120A/109 157A/540 157A/540 158/691 17/2023 12-15-23 pt. 8 Albert Ray Taylor and Carrie M. Taylor, husband and wife Mobay Chemical Corporation Haddad and Brooks, Inc. Sun Exploration and Production Company Haddad and Brooks, Inc. Sun Exploration and Production Company	I		husband and wife			l l	
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 Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties Inc. 3 12-15-23 pt. 8 Albert Ray Taylor and Carrie M. Taylor, husband and wife Mobay Chemical Corporation Haddad and Brooks, Inc. Sun Exploration and Production Company Haddad and Brooks, Inc. Sun Exploration and Production Company Haddad and Brooks, Inc. Sun Exploration and Production Company Haddad and Brooks, Inc. Sun Exploration and Production Company 65A/195	1		Haddad and Brooks, Inc.				
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 Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC) Albert Ray Taylor and Carrie M. Taylor, husband and wife Mobay Chemical Corporation Haddad and Brooks, Inc. Sun Exploration and Production Company 65A/195	l		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 Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties Inc. SWN Exchange Titleholder LLC (now SWN Production Company LLC) Albert Ray Taylor and Carrie M. Taylor, husband and wife Mobay Chemical Corporation Haddad and Brooks, Inc. Sun Exploration and Production Company 65A/67 Haddad and Brooks, Inc.	ı		Sun Operating Limited Partnership	Haddad and Brooks, Inc.	ŀ		
Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC SWN Production Company, LLC Statoil USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company SWN Production Company SWN Production Company SWN Production Company LLC SWN Production Company LLC SWN Production Company LLC SWN Production Company SW	I			Haddad and Brooks, Inc.		70A/265	
Reneral partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Statoil USA Onshore Properties, Inc.) SWN Exchange Titleholder LLC (now SWN Production Company, LLC) 3 12-15-23 pt. 8 Albert Ray Taylor and Carrie M. Taylor, husband and wife Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 65A/195	ı		_	1			
Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC SWN Production Company, LLC Statoil USA Onshore Properties Inc. SWN Exchange Titleholder LLC (now SWN Production Company LLC) Albert Ray Taylor and Carrie M. Taylor, husband and Wife Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 65A/195	ı			-[
Haddad and Brooks, Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC Statoil USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC) 3 12-15-23 pt. 8 Albert Ray Taylor and Carrie M. Taylor, husband and Wife Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 102A/302 120A/109 157A/540 158A/801 17-15-23 pt. 8 Albert Ray Taylor and Carrie M. Taylor, husband and Mobay Chemical Corporation Fig. 4/2 1/2 0/2 3 0.0000% Haddad and Brooks, Inc. Sun Exploration and Production Company	ı			Haddad and Brooks, Inc.		71A/593	
Chesapeake Appalachia, LLC USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.) SWN Production Company, LLC Statoil USA Onshore Properties Inc. SWN Exchange Titleholder LLC (now SWN Production Company LLC) 3 12-15-23 pt. 8 Albert Ray Taylor and Carrie M. Taylor, husband and wife Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 120A/109 157A/540 157A/540 158A/801 160A/153 0.0000%	I		, ,	1		102A/302	
USA Onshore Properties, Inc.) Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. SWN Production Company, LLC Statoil USA Onshore Properties Inc. SWN Exchange Titleholder LLC (now SWN Production Company LLC) 3 12-15-23 pt. 8 Albert Ray Taylor and Carrie M. Taylor, husband and wife Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company USA Onshore Properties, Inc.) 157A/540 1588/891/2 1/2023 0.0000% 60A/153 0.0000% 655A/67 65A/67 65A/195	ı		-				
Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. 3 12-15-23 pt. 8 Albert Ray Taylor and Carrie M. Taylor, husband and wife Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production 1584/891/2/1/2023 Mobay Chemical Corporation 12.50% 60A/153 0.0000% Haddad and Brooks, Inc. Sun Exploration and Production Company 65A/195	1		minante de]		
Statoil USA Onshore Properties Inc. SWN Exchange Titleholder LLC (now SWN Production Company LLC) 3 12-15-23 pt. 8 Albert Ray Taylor and Carrie M. Taylor, husband and Mobay Chemical Corporation Wife Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 1588/801/2 1/2023 60A/153 0.0000% 65A/67 65A/195	Ĺ		Chesaneake Appalachia IIIC		1	157A/540	
3 12-15-23 pt. 8 Albert Ray Taylor and Carrie M. Taylor, husband and Mobay Chemical Corporation 12.50% 60A/153 0.0000% wife Mobay Chemical Corporation Haddad and Brooks, Inc. 65A/67 Haddad and Brooks, Inc. Sun Exploration and Production Company 65A/195	I		1		ì	158A/801,	4/0000
3 12-15-23 pt. 8 Albert Ray Taylor and Carrie M. Taylor, husband and Mobay Chemical Corporation 12.50% 60A/153 0.0000% wife Mobay Chemical Corporation Haddad and Brooks, Inc. 65A/67 Haddad and Brooks, Inc. Sun Exploration and Production Company 65A/195	ı		praces our character rupernes (ib.		l	04/2	11/2023
wife Mobay Chemical Corporation Haddad and Brooks, Inc. 55A/67 Haddad and Brooks, Inc. 55A/195	3	17.15.22 0	Albert Ray Taylor and Carrie Rd. Taylor hychand and		12.50%		
Mobay Chemical Corporation Haddad and Brooks, Inc. 65A/67 Haddad and Brooks, Inc. Sun Exploration and Production Company 65A/195	•	12-13-23 pt. b		mosey chemical corporation		2074 200]
Haddad and Brooks, Inc. Sun Exploration and Production Company 65A/195	ŀ			Haddad and Brooks Inc	I	65A/67	1
radada dila ordona, ma			· ·	•			
Haddad and Brooks, Inc. Natmin Development Corporation 67A/516	ŀ			• •		67A/516	
Haddad and Brooks, Inc. Natmin Development Corporation 67A/316	ļ		mavuati and proces, sixt.	Institut pessiohtistit corboration	1	, 5,,,4,320	•

APR 1 8 2023

EXHIBIT "A"

WV Department or

EXHIBIT "A"

Environmental Protection

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 410H Wetzel County, West Virginia

4 12-15-28 pt. B	Inverness Petroleum Inc. Sun Exploration and Production Company 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 Statoil USA Onshore Properties Inc. A. C. Ballard and Virginia Ballard, husband and wife, Paul R. Lemasters, single Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 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 Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Rosalyn A. Metzger	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) Mobay Chemical Corp. Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership 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) Haddad and Brooks, Inc. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC	12.50% 12.50%	71A/268 69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 60A/137 65A/67 65A/195 67A/516 69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 82A/107 104A/230 120A/109 157A/540 158A/801 237A/540 158A/801	0.0000%
	Sun Exploration and Production Company 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 Statoil USA Onshore Properties Inc. A. C. Ballard and Virginia Ballard, husband and wife, Paul R. Lemasters, single Mobay Chemical Corporation Haddad and Brooks, Inc. Sun Exploration and Production Company 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 Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Sun Operating Umited Partnership 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) Mobay Chemical Corp. Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership 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) Haddad and Brooks, Inc. 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) SWN Production Company, LLC	12.50% 18.00% 18.00%	69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 60A/137 65A/67 65A/195 67A/516 69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 82A/107 104A/230 120A/109 157A/540 158A/801	0.000%
	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. A. C. Ballard and Virginia Ballard, husband and wife, Paul R. Lemasters, single Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 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 Cthesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties 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) Mobay Chemical Corp. Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership 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) Haddad and Brooks, Inc. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC	12.50% 18.00% 18.00%	70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 60A/137 65A/67 65A/67 65A/195 67A/516 69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 82A/107 104A/230 120A/109 157A/540 158A/801	0.000%
	general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. A. C. Ballard and Virginia Ballard, husband and wife, Paul R. Lemasters, single Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 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 Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties 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) Mobay Chemical Corp. Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership 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) Haddad and Brooks, Inc. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC	12.50% 18.00% 18.00%	103A/350 120A/109 157A/540 158A/801 60A/137 65A/67 65A/195 67A/516 69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 82A/107 104A/23D 120A/109 157A/540 158A/801	0.000%
	Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. A. C. Ballard and Virginia Ballard, husband and wife, Paul R. Lemasters, single Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 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 Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties 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) Mobay Chemical Corp. Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership 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) Haddad and Brooks, Inc. 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 USA Onshore Properties, Inc.) SWN Production Company, LLC	12.50% 18.00% 18.00%	103A/350 120A/109 157A/540 158A/801 60A/137 65A/67 65A/195 67A/516 69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 82A/107 104A/23D 120A/109 157A/540 158A/801	0.000%
	Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. A. C. Ballard and Virginia Ballard, husband and wife, Paul R. Lemasters, single Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 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 Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties 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) Mobay Chemical Corp. Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership 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) Haddad and Brooks, Inc. 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 USA Onshore Properties, Inc.) SWN Production Company, LLC	12.50% 18.00% 18.00%	103A/350 120A/109 157A/540 158A/801 60A/137 65A/67 65A/195 67A/516 69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 82A/107 104A/23D 120A/109 157A/540 158A/801	0.000%
	Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. A. C. Ballard and Virginia Ballard, husband and wife, Paul R. Lemasters, single Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 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 Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC 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) Mobay Chemical Corp. Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership 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) Haddad and Brooks, Inc. 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 USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Production Company, LLC SWN Production Company, LLC	12.50% 18.00% 18.00%	120A/109 157A/540 158A/801 60A/137 65A/67 65A/195 67A/516 69A/502 70A/26S 71A/350 103A/350 120A/109 157A/540 158A/801 82A/107 104A/23D 120A/109 157A/540 158A/801 237A/26 237A/31	0.000%
	Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. A. C. Ballard and Virginia Ballard, husband and wife, Paul R. Lemasters, single Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 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 Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC) Mobay Chemical Corp. Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership 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) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	12.50% 18.00% 18.00%	157A/540 158A/801 60A/137 65A/67 65A/195 67A/516 69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 82A/107 104A/230 120A/109 157A/540 158A/801	0.000%
	Statoil USA Onshore Properties Inc. A. C. Ballard and Virginia Ballard, husband and wife, Paul R. Lemasters, single Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 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. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC) Mobay Chemical Corp. Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership 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) Haddad and Brooks, Inc. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC	12.50% 18.00% 18.00%	158A/801 60A/137 65A/67 65A/195 67A/516 69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 82A/107 104A/230 120A/109 157A/540 158A/801 237A/26 237A/31	0.000%
	A. C. Ballard and Virginia Ballard, husband and wife, Paul R. Lemasters, single Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 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. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Company LLC) Mobay Chemical Corp. Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership 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) Haddad and Brooks, Inc. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC	12.50% 18.00% 18.00%	60A/137 65A/67 65A/195 67A/516 69A/502 70A/26S 71A/350 103A/350 120A/109 157A/540 158A/801 120A/109 157A/540 158A/801 237A/26 237A/31	0.000%
	Paul R. Lemasters, single Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 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 Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Mobay Chemical Corp. Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership 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) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	12.50% 18.00% 18.00%	65A/67 65A/195 67A/516 69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 120A/109 157A/540 158A/801 237A/26 237A/31	0.000%
	Paul R. Lemasters, single Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 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 Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. 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. 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) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	12.50% 18.00% 18.00%	65A/67 65A/195 67A/516 69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 120A/109 157A/540 158A/801 237A/26 237A/31	0.000%
	Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 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 Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership 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) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	65A/195 67A/516 69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 82A/107 104A/23D 120A/109 157A/540 158A/801 237A/26 237A/31	0.000%
	Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company 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 Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership 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) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	65A/195 67A/516 69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 82A/107 104A/23D 120A/109 157A/540 158A/801 237A/26 237A/31	0.000%
	Sun Exploration and Production Company 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. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Natmin Development Corporation Sun Operating Limited Partnership 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) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	67A/516 69A/502 70A/265 71A/350 103A/350 120A/109 157A/540 158A/801 82A/107 104A/230 120A/109 157A/540 158A/801 237A/26 237A/31	0.000%
	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. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties 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) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	70A/26S 71A/350 103A/350 120A/109 157A/540 158A/801 82A/107 104A/230 120A/109 157A/540 158A/801 237A/26 237A/31	0.000%
	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. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties 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) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	71A/350 103A/350 120A/109 157A/540 158A/801 82A/107 104A/230 120A/109 157A/540 158A/801 237A/26 237A/31	0.9000%
	general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties 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) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	103A/350 120A/109 157A/540 158A/801 82A/107 104A/230 120A/109 157A/540 158A/801 237A/26 237A/31	0.0000%
	Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties 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) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	103A/350 120A/109 157A/540 158A/801 82A/107 104A/230 120A/109 157A/540 158A/801 237A/26 237A/31	0.9000%
	Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC 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) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	103A/350 120A/109 157A/540 158A/801 82A/107 104A/230 120A/109 157A/540 158A/801 237A/26 237A/31	0.0000%
	Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	157A/540 158A/801 82A/107 104A/23D 120A/109 157A/540 158A/801 237A/26 237A/31	0.8000%
	Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	158A/801 82A/107 104A/230 120A/109 157A/540 158A/801 237A/26 237A/31	0.0000%
	Statoil USA Onshore Properties Inc. Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder LLC (now SWN Production Company LLC) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	158A/801 82A/107 104A/230 120A/109 157A/540 158A/801 237A/26 237A/31	0.9000%
	Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Company LLC) Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	82A/107 104A/230 120A/109 157A/540 158A/801 237A/26 237A/31	0.0000%
	wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Haddad and Brooks, Inc. 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) SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	104A/230 120A/109 157A/540 158A/801 237A/26 237A/31	0.8000%
5 12-15-29 pt. B	wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	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) SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	104A/230 120A/109 157A/540 158A/801 237A/26 237A/31	
5 12-15-29 pt. B	Chesapeake Appalachia, LLC 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) SWN Production Company, LLC SWN Production Company, LLC	18.00%	120A/109 157A/540 158A/801 237A/26 237A/31	
5 12-15-29 pt. B	Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Production Company, LLC SWN Production Company, LLC	18.00%	157A/540 158A/801 237A/26 237A/31	
5 12-15-29 pt. B	Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Production Company, LLC SWN Production Company, LLC	18.00%	157A/540 158A/801 237A/26 237A/31	
S 12-15-29 pt. B	Statoil USA Onshore Properties Inc.	SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Production Company, LLC SWN Production Company, LLC	18.00%	158A/801 237A/26 237A/31	
5 12-15-29 pt. B	Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Production Company, LLC SWN Production Company, LLC	18.00%	158A/801 237A/26 237A/31	
5 12-15-29 pt. B	Rosəlyn A. Metzger	SWN Production Company, LLC SWN Production Company, LLC	18.00%	237A/31	
5 12-15-29 pt. B	Rosalyn A. Metzger	SWN Production Company, LLC	18.00%	237A/31	
S 12-15-29 pt. B					,
S 12-15-29 pt. B	MBD Holdings, LP Rosalyn A. Metzger and Deborah Rein, Co-Trustees o		18.00%	23/14/30	
S 12-15-29 pt. B	the Siegler Family Trust	STATE FOODSTON COMPANY, ELC	10.0079		
S 12-15-29 pt. B	Deborah Rein	SWN Production Company, LLC	18.00%	237A/41	
	Harold H. Blake and/or Donna M. Blake, husband and	Haddad and Brooks, Inc.	12.50%	82A/107	0.0000%
	Wife	Character 4 1 C		/>>	
	Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc.	. Ichesapeake Apparacriia, L.L.C.		104A/230	
	Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc. (now Equinor		120A/109	
		USA Onshore Properties, Inc.)			
	Chesapeake Appalachia, LLC	SWN Production Company, LLC	1	157A/540	
	Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder LLC (now SWN Production		158A/801	
	Mary Ballouz Davis, a/k/a Mary B. Davis, a/k/a Mary	Company LLC) Chesapeake Appalachia, L.L.C.	17.00%	125A/628	
	M. Ballouz Davis, widow	Chesapeake Apparachia, C.CC.	17.00%	1234/026	
	Chesapeake Appalachia, L.L.C.	Statoli USA Onshore Properties, Inc. (now Equinor		139A/402	
		USA Onshare Properties, Inc.)			
l	Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
Į.	Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder LLC (now SWN Production		158A/801	
- 	The Siegler Family Trust, by Rosalyn A. Metzger and	Company LLC) Chesapeake Appalachia, L.L.C.	17.00%	125A/633	
	Deborah Rein, acting as Trustees	, , , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , ,	,
	·			į l	
	Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc. (now Equinor		139A/402	
	Charangaka Annalashia 112	USA Onshore Properties, Inc.)		1574/540	
	Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production		157A/540 158A/801	
		Company LLC)			
	Rosalyn A. Metzger	Chesapeake Appalachia, L.L.C.	17.00%	125A/638	
	Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc. (now Equinor		139A/402	
	Chesapeake Appalachia, LLC	USA Onshore Properties, Inc.)		1574/540	
	Statoil USA Onshore Properties Inc.	SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production		157A/540 158A/801	
		Company LLC)	<u> </u>		
	Deborah Rein	Chesapeake Appalachia, L.L.C.	17.00%	125A/643	
		Statoil USA Onshore Properties, Inc. (now Equinor		139A/402	
	Chesapeake Appalachia, L.L.C.	USA Onshore Properties, Inc.)		1574/540	
		SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production	1	157A/540 158A/801	
	Chesapeake Appalachia, LLC		<u> </u>		
6 1-10-10 pt. A		Company LLC)	17.00%	127A/602	
	Chesapeake Appalachia, LLC Statoll USA Onshore Properties Inc. Haddad and Brooks, Inc.	Chesapeake Appalachia, L.L.C.	17.00%	139/0/4/2/	0.0000%
	Chesapeake Appalachia, LLC Statoll USA Onshore Properties Inc.	Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. (now Equinor	17.56%	U 41/ △	0.0000% 21/2023
	Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Haddad and Brooks, Inc. Chesapeake Appalachia, E.L.C.	Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)	17.50%	1 "7	
	Chesapeake Appalachia, LLC Statoll USA Onshore Properties Inc. Haddad and Brooks, Inc.	Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Exchange Titleholder LLC (now SWN Production	17.50%	158A/801	
1	Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Haddad and Brooks, Inc. Chesapeake Appalachia, E.L.C.	Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)	17.50%	1 "7	

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Company, 1 doC as Operator
William Ritchea WTZ 410H
Wetzel County, West Virginia

		East Resources, Inc. Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. and Statoli USA Onshore Properties, Inc. SWN Production Company, LLC	12.50%	146A/11 157A/540	
	1-10-11	Haddad and Brooks, Inc.	Chesapeake Appalachia, LLC	17.00%	127A/602	0.0000%
3 11	0.35,50	Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc. (now Equinor		139A/402	
		and the second second	USA Onshore Properties, Inc.)		0.50	
		Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder LLC (now SWN Production		158A/801	
		Chesapeake Appalachia, L.L.C.	Company LLC) SWN Production Company, LLC		157A/540	
		East Resources, Inc.	Chesapeake Appalachia, L.L.C. and Statoil USA	12.50%	146A/11	
		East Resources, Inc.	Onshore Properties, Inc.	12.30%	TAGA(II	
	1	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
8	1-10-11.1	Haddad and Brooks, inc	Chesapeake Appalachia, L.L.C.	17.00%	127A/602	0.0000%
		Chesapeake Appalachia, L.L.C.	Statoll USA Onshore Properties, Inc. (now Equinor		139A/402	
		Statoil USA Onshore Properties Inc.	USA Onshore Properties, Inc.) SWN Exchange Titleholder LLC Inow SWN Production		158A/801	
		Statuli DSA Offshore Properties Inc.	Company LLC)		1304/001	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		East Resources, Inc.	Chesapeake Appalachia, L.L.C. and Statoil USA	12.50%	146A/11	
		A STATE OF THE STA	Onshore Properties, Inc.	1.0		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
9	p/q 1-10-11	Haddad and Brooks, Inc.	Chesapeake Appalachia, L.L.C.	17,00%	127A/602	0.0000%
11		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		139A/402	
		Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder LLC (now SWN Production		158A/801	
		Andrew Committees & Links Clark Copy	Company LLC)			
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
				-0.0367		
		East Resources, Inc	Chesapeake Appalachia, L.L.C. and Statoil USA	12.50%	146A/11	
		Chesapeake Appalachia, L.L.C.	Onshore Properties, Inc. SWN Production Company, LLC		157A/540	
10	1-10-25 pt. A	Country Roads Minerals, LLC	SWN Production Company, LLC	20.00%	298A/373	0.0000%
100	STATE OF A	LaCore Agriculture, LLC	SWN Production Company, LLC	20.00%	298A/468	0.000076
11	1-10-34	Royalty Owner(s)	N/A	N/A	N/A	9.1667%
		Terry A. Moore	Drilling Appalachian Corporation	15,0000%	172A/562	2 2
		Drilling Appalachian Corporation	Antero Resources Corporation		179A/300	
		Antero Resources Corporation	SWN Production Company, LLC, and Equinor USA		272A/588	
		Teresa Utt	Onshore Properties, Inc. Drilling Appalachian Corporation	15.0000%	171A/189	
		Drilling Appalachian Corporation	Antero Resources Corporation	12.00076	179A/300	
		Antero Resources Corporation	SWN Production Company, LLC, and Equinor USA		272A/588	
			Onshore Properties, Inc.		15575	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	12.5000%	166A/931	
		SWN Production Company, LLC and Statoil USA	Drilling Appalachian Corporation		174A/480	
		Onshare Properties Inc.	end a second		1701 1000	
		Drilling Appalachian Corporation	Antero Resources Corporation SWN Production Company LLC and Equipor USA		179A/300 272A/588	
		Antera Resources Carporation	SWN Production Company, LLC, and Equinor USA Onshore Properties, Inc.		ELENISON	
		Sarah Darlene Gross a/k/a Sarah Darlene Midcap	SWN Production Company, LLC	18.0000%	309A/756	
				40.000	2001.000	
		Roger Leroy Midcap Sr	SWN Production Company, LLC	18.0000%	309A/761 303A/431	
		Ricky D. Winland, a single man Ralph G. Preston, a single man	SWN Production Company, LLC SWN Production Company, LLC	15.0000%	289A/293	
		Rachel Rickman	Drilling Appalachian Corporation	15.0000%	172A/299	
		Drilling Appalachian Corporation	Antero Resources Corporation	100,000	179A/300	
		Antero Resources Corporation	SWN Production Company, LLC, and Equinor USA		272A/588	
			Onshore Properties, Inc.	***************************************	20011155	
	1	Piney Holdings, Inc.	SWN Production Company, LLC	20.0000%	295A/204	
		Pamela I. Riggenbach and Leslie Riggenbach	Drilling Appalachian Corporation	15.0000%	159A/377	
		Drilling Appalachian Corporation	Antero Resources Corporation		179A/300	
		Antero Resources Corporation	SWN Production Company, LLC, and Equinor USA		272A/588	
		The state of the s	Onshare Properties, Inc.		97923	
		BRC Appalachian Minerals I LLC and BRC Minerals LP	BRC Working Interest Company LLC	12.8750%	102A/505;	
		the contract of the contract o			103A/320	
		Addition Additional to the second	An almain amagain this		- 20767A7A7O	
		BRC Working Interest Company LLC	Chesapeake Appatachia, LLC		103A/470	
		BRC Working Interest Company LLC Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc. (now Equinor		120A/109	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties Inc.)		120A/109	
		Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoli 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)		120A/109 157A/540 158A/801	
		Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoli USA Onshore Properties, Inc. SWN Production Company, LLC and Statoli USA	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties Inc.) SWN Production Company, LLC SWN Exchange Titleholder, LLC (now SWN Production		120A/109 157A/540	
		Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoli USA Onshore Properties, Inc. SWN Production Company, LLC and Statoli 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) Drilling Appalachian Corporation		120A/109 157A/540 158A/801 174A/480	
		Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoll USA Onshore Properties, Inc. SWN Production Company, LLC and Statoll USA Onshore Properties Inc. Drilling Appalachian Corporation	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		120A/109 157A/540 158A/801 174A/480 179A/300	
		Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoli USA Onshore Properties, Inc. SWN Production Company, LLC and Statoli 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) Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC, and Equinor USA		120A/109 157A/540 158A/801 174A/480	
		Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoll USA Onshore Properties, Inc. SWN Production Company, LLC and Statoll USA Onshore Properties Inc. Drilling Appalachian Corporation Antero Resources Corporation	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	15.0000%	120A/109 157A/540 158A/801 174A/480 179A/300	
		Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoll USA Onshore Properties, Inc. SWN Production Company, LLC and Statoll USA Onshore Properties Inc. Drilling Appalachian Corporation	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.	15.0000% 15.0000%	120A/109 157A/540 158A/801 174A/480 179A/300 272A/588 278A/693 171A/200	
		Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoll USA Onshore Properties, Inc. SWN Production Company, LLC and Statoll USA Onshore Properties Inc. Drilling Appalachian Corporation Antero Resources Corporation Mark L. Preston, single Margaret E. Derby Drilling Appalachian Corporation	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. SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation		120A/109 157A/540 158A/801 174A/480 179A/300 272A/588 278A/693 171A/200	21/2023
		Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoll USA Onshore Properties, Inc. SWN Production Company, LLC and Statoll USA Onshore Properties Inc. Drilling Appalachian Corporation Antero Resources Corporation Mark L. Preston, single Margaret E. Derby	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. SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC		120A/109 157A/540 158A/801 174A/480 179A/300 272A/588 278A/693 171A/200	21/2023
		Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoll USA Onshore Properties, Inc. SWN Production Company, LLC and Statoil USA Onshore Properties Inc. Drilling Appalachian Corporation Antero Resources Corporation Mark L. Preston, single Margaret E. Derby Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation	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. SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Onshore Properties, Inc.	15.0000%	120A/109 157A/540 158A/801 174A/480 179A/300 272A/588 278A/693 171A/200 179A/300 272A/288/	21/2023
		Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoll USA Onshore Properties, Inc. SWN Production Company, LLC and Statoil USA Onshore Properties Inc. Drilling Appalachian Corporation Antero Resources Corporation Mark L. Preston, single Margaret E. Derby Drilling Appalachian Corporation Antero Resources Corporation Linda Sue Brady a/k/a Linda Sue Midcap, a married.	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. SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC		120A/109 157A/540 158A/801 174A/480 179A/300 272A/588 278A/693 171A/200	21/2023
		Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoll USA Onshore Properties, Inc. SWN Production Company, LLC and Statoil USA Onshore Properties Inc. Drilling Appalachian Corporation Antero Resources Corporation Mark L. Preston, single Margaret E. Derby Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation	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. SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Onshore Properties, Inc.	15.0000%	120A/109 157A/540 158A/801 174A/480 179A/300 272A/588 278A/693 171A/200 179A/300 272A/288/	21/2023

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 410H Wetzel County, West Virginia

		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	15.0000%	172A/295	
		Drilling Appalachian Corporation	Antero Resources Corporation	23.000075	172A/295 179A/300	
		Antero Resources Corporation	SWN Production Company, LLC, and Equinor USA		272A/588	
1		lam or Feb. and half to	Onshore Properties, Inc.		V-00	1
		James Edward Midcap, a married man dealing in his sole and separate property	SWN Production Company, LLC	18,0000%	309A/766	
ш		Harley A. Moore	Drilling Appalachian Corporation	15.0000%	172A/552	
1		Drilling Appalachian Corporation	Antero Resources Corporation	42.000016	179A/300	
1		Antero Resources Corporation	SWN Production Company, LLC, and Equinor USA Onshore Properties, Inc.		272A/588	
10		Drilling Appalachian Corporation	Antero Resources Corporation		179A/300	
- 1		Antero Resources Corporation	SWN Production Company, LLC, and Equinor USA		272A/588	
		Darla R. Merckie	Onshore Properties, Inc.		122222	
1		Drilling Appalachian Corporation	Drilling Appalachian Corporation	15.0000%	160A/561	
		Antero Resources Corporation	Antero Resources Corporation	1 1 2 1	179A/300	
		rancio negoci ces corpuration	SWN Production Company, LLC, and Equinor USA		272A/588	
		Billy Joe Midcap	Onshore Properties, Inc. SWN Production Company, LLC	*******		
-		Belva J. Morris, a married woman dealing in her sole	SWN Production Company, LLC	18.0000%	309A/771	
_		and separate property	STATE TO A STATE OF THE STATE O	15.0000%	289A/298	
T	1-10-35	Royalty Owner (subject to undization filing dated	N/A	N/A	N/A	42,5696
		Yvonne M. Smith	Drilling Appalachian Corporation	10.000		
		Drilling Appalachian Corporation	Antero Resources Corporation	18,00%	174A/372 179A/300	
		Antero Resources Corporation	SWN Production Company, LLC		2224 (224	
		Yohna McPeek	Drilling Appalachian Corporation	15.00%	272A/588	
		Drilling Appalachian Corporation	Antero Resources Corporation	15.00%	173A/655 179A/300	
		Antero Resources Corporation	SWN Production Company, LLC		272A/588	
		Frederick M. Dean Rohrig, as Special Commissioner	Drilling Appalachian Corporation	15.00%	208A/92	
		for and on behalf of John C. Wilson, D. Joan Martino,	Sales Advisor Annual Control of the	2000		
		Lewis Yeater, William L. McPeek, Emma L. Newhouse,				
		Lawrence McPeek, Rebecca L. Lash, Mary A. Vance,				1
		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			1 1	
		Gold Group Ltd., Jenny Miller, Gloria Miller, Russell				
		Yeater, Edward Yeater, Betty Johnson, Alyana Lyster,			1 1	
		Ommani Lyster, Acacia Lyster, Arch Albert Conner,				
		Harold Yeater, Walter Wellman, Edna Ruckman, Lulu				
		Reck, Madelyn E. Mosser (formerly Pennington), John			1 1	
		W. Heath, William K. heath, T and D Corporation, or				
		successor, Francis Quigley, Gregory Steinhart, William				
1		G. Yeater, their missing, unknown, and abandoning			1	
		heirs, successors and assigns, pursuant to action in				
		the Circuit Court of Wetzel County, styled Drilling				
		Appalachian Corporation vs. Shiben Estates, Inc. et				
		al, Civil Action No. 17 C-33				
				1		
		Land of the second second	San			
		Drilling Appalachian Corporation	Antero Resources Corporation		215A/930	
		Antero Resources Corporation Emily K. Yeater Rulong	SWN Production Company, LLC	49.94	272A/588	
		Drilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	17.00%	174A/746	
		Antero Resources Corporation	SWN Production Company, LLC		179A/300 272A/588	
		William C. Atwell	Drilling Appalachian Corporation	15.00%	174A/381	1
		Drilling Appalachian Corporation	Antero Resources Corporation	A.S. O. O.	179A/300	
		Antero Resources Corporation	SWN Production Company, LLC		272A/588	
		William Bernard Yeater a/k/a Bernard Yeater, a	SWN Production Company, LLC	18.00%	308A/433	1
		married man dealing in his sole and separate property		7,000	10.71.700	
		Arthur Workman and Vera Shirlene Workman.	Drilling Appalachian Corporation	16.50%	165A/183	
		husband and wife	S. Albanania and Installation,	10.30%	103H/103	
		Drilling Appalachian Corporation	Antero Resources Corporation		179A/300	
		Antero Resources Corporation	SWN Production Company, LLC		272A/588	
1		John K. Otto	Drilling Appalachian Corporation	15:00%	175A/173	
		Drilling Appalachian Corporation	Antero Resources Corporation	1	179A/300	
		Antero Resources Corporation	SWN Production Company, LLC		272A/588	1
		Timothy Wayne Anderson	Drilling Appalachian Corporation	15.00%	174A/204	
		Drilling Appalachian Corporation	Antero Resources Corporation		179A/300	
		Autore Dean was Constituted	SWN Production Company, LLC		272A/588	
		Antero Resources Corporation	matter was a very service of the contract of t		174A/750	46.1
		Timothy Hinkle & Shannon Hinkle, husband and wife	Drilling Appalachian Corporation	15,00%	#14W1130	410000
		Timothy Hinkle & Shannon Hinkle, husband and wife Drilling Appalachian Corporation	Antero Resources Corporation	15,00%	179 (0340/2	21/2023
		Timothy Hinkle & Shannon Hinkle, husband and wife Drilling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		179 M240/2 272A/588	21/2023
		Timothy Hinkle & Shannon Hinkle, husband and wife Drilling Appalachian Corporation	Antero Resources Corporation	18.00%	179 (0340/2	21/2023
		Timothy Hinkle & Shannon Hinkle, husband and wife Drilling Appalachian Corporation Antero Resources Corporation Three Rivers Royalty II, LLC, Tiffany Culp - VP Land &	Antero Resources Corporation SWN Production Company, LLC		179 M240/2 272A/588	21/2023

APR 1 8 2023

EXHIBIT "A"

WV Department of

Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Attached to an Attached William Ritchea WTZ 410H Wetzel County, West Virginia

Rodney Chester Lowe and Virginia Ann Lowe,	Drilling Appalachian Corporation	15.00%	174A/758]
husband and wife			_	
Orilling Appalachian Corporation	Antero Resources Corporation		179A/300	
Antero Resources Corporation Robert Mock and Judith Mock, husband and wife	SWN Production Company, LLC Drilling Appalachian Corporation	15.00%	272A/588 174A/764	
The state of the s	Symposium corporation	13.00%	1/44//04	
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300	
Antero Resources Corporation	SWN Production Company, LLC		272A/588	
une Ann Reid	Drilling Appalachlan Corporation	15.00%	174A/770	
Orifling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		179A/300	
Rosemary Lunemann	Drilling Apparachian Corporation	15.00%	272A/588 173A/557	
Orilling Appalachian Corporation	Antero Resources Corporation	1	179A/300	
Antero Resources Corporation	SWN Production Company, LLC		272A/588	
Terry W. Yeater	Drilling Appalachian Corporation	15.00%	182A/529	
Orilling Appalachian Corporation	Antero Resources Corporation		186A/150	
Antero Resources Corporation Ferry W. Kittle and Deborah Kittle, husband and wife	SWN Production Company, LLC	45.000	272A/588	
erry W. Kittle and Debotan Kittle, Husband and Wile	Drifling Appalachlan Corporation	15.00%	174A/768	
Drilling Appalachian Corporation	Antero Resources Corporation		186A/150	
Antero Resources Corporation	SWN Production Company, LLC		272A/588	
Ferrie L. Lausin, a single woman	SWN Production Company, LLC	15.00%	307A/362	
tichard Lee Parrish and Terl Lee Parrish, husband and	Drilling Appalachian Corporation	15.00%	165A/778	Ì
wife Drilling Appalachian Corporation	Antero Perousees Comments		1704/200	
Orilling Appalachian Corporation Orilling Appalachian Corporation	Antero Resources Corporation Antero Resources Corporation		179A/300 215A/930	
Antero Resources Corporation	SWN Production Company, LLC		215A/930 272A/588	
Susan Inclan & Joseph C. Inclan	Drilling Appalachian Corporation	18.00%	177A/527	
Orilling Appalachian Corporation	Antero Resources Corporation		179A/300	
Antero Resources Corporation	SWN Production Company, LLC		272A/588	
Living Trust of Harold L. Yeater, dated January 29,	Drilling Appalachian Corporation	15.00%	174A/867	
1999, Stephen L. Yeater, Co-Trustee				
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	
Drifting Appalachian Corporation	Antero Resources Corporation		179A/300	
Antero Resources Corporation John Edward Yeater and Sharon Lynn Yeater, husband	SWN Production Company, LLC	17.00%	272A/588 177A/523	
and wife	Comming Appaiachtes Corporation	17.00%	1//4/323	
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/3B	
Drilling Appalachian Corporation	Antero Resources Corporation		186A/150	
Antero Resources Corporation Conrad Sherwood Yeater	SWN Production Company, LLC	45 000	272A/588	
Drilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	15.00%	174A/219 179A/300	
Antero Resources Corporation	SWN Production Company, LLC		272A/588	
Scott C. Harris and Carolyn R. Hamis, husband and	SWN Production Company, LLC	17.00%	304A/351	
wife			l '	•
Sandy Cumpston	Drifling Appalachian Corporation	15.00%	174A/202	
Orilling Appalachian Corporation	Antero Resources Corporation		179A/300	
Antero Resources Corporation Sandra C. Koontz	SWN Production Company, UC	45.000	272A/588	
Drilling Appalachian Corporation	Orilling Appalachian Corporation Antero Resources Corporation	15.00%	174A/354 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	j	179A/300	
Antero Resources Corporation	SWN Production Company, LLC		272A/588	Ī
Robert C. Aspley	Drilling Appalachian Corporation	15.00%	173A/555	
Orilling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		179A/300	
Ricky A. Yeater	Drilling Appalachian Corporation	15.00%	272A/588 181A/188	
Orilling 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	l	179A/300	
Antero Resources Corporation Recon Resources, LLC, a Texas Limited Liability	SWN Production Company, LLC	15 000	272A/588	
recon Resources, LLC, a Texas Limited Diability Company d/b/a Recon royalties	Antero Resources Corporation	15.00%	190A/3	
Antero Resources Corporation	SWN Production Company, LLC	1	272A/588	
Rebecca J. Norris	Drilling Appalachian Corporation	15.00%	174A/216	
Orilling Appalachian Corporation	Antero Resources Corporation	-3	179A/300	
Antero Resources Corporation	SWN Production Company, LLC		272A/588	
Rebecca Ann Haley	Drilling Appalachian Corporation	15.00%	174A/352	
Orilling Appalachian Corporation	Antero Resources Corporation		179A/300	
Antero Resources Corporation	SWN Production Company, LLC	4 5 644.	272A/588	
Rachel Anne Yeater, single Drilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	15.00%	165A/185 179A/304/	1/20
Antero Resources Corporation	SWN Production Company, LLC		272A/588	_ 1/2/04
Nancy Truex	Drilling Appalachian Corporation	17.00%	181A/60	
Drilling Appalachian Corporation	Antero Resources Corporation		186A/150	1
Antero Resources Corporation	SWN Production Company, LLC	1	272A/588	
Chester Holloway and Nancy Holloway, husband and	Drilling Appalachian Corporation	15.00%	174A/348	

4710303576

EXHIBIT "A"

WV Decantment of

EXHIBIT "A"

Environmental Protection
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 410H Wetzel County, West Virginia

	ntero Resources Corporation		179A/300
	WN Production Company, LLC	15 00%	272A/588
,	rilling Appalachian Corporation	15.00%	174A/871 179A/300
D	ntero Resources Corporation WN Production Company, LLC		272A/588
	rilling Appalachian Corporation	18.00%	174A/375
•	ntero Resources Corporation	1	179A/300
- · · · · · · · · · · · · · · · · · · ·	WN Production Company, LLC		272A/588
	rilling Appalachian Corporation	15.00%	173A/653
	intero Resources Corporation	1	179A/300
	WN Production Company, LLC		272A/588
	WN Production Company, LLC	18.00%	311A/443 174A/396
•	Prilling Appalachian Corporation	17.00%	179A/300
	Intero Resources Corporation WN Production Company, LLC		272A/588
	Orilling Appalachian Corporation	15.00%	174A/861
,	Antero Resources Corporation	25.00%	179A/300
mm.B. +Ferrer	WN Production Company, LLC		272A/588
	Orilling Appalachian Corporation	15.00%	178A/380
rilling Appalachian Corporation	Antero Resources Corporation		186A/150
ntero Resources Corporation	SWN Production Company, LLC		272A/588
larguerite Harbison	Orilling Appalachian Corporation	15.00%	173A/661
rilling Appalachian Corporation	Antero Resources Corporation	1 1	179A/300
	SWN Production Company, LLC		272A/588
	Drilling Appalachian Corporation	15.00%	174A/756
	Antero Resources Corporation		179A/300
	SWN Production Company, LLC	15 (040)	272A/588 174A/370
	Drilling Appalachian Corporation Antero Resources Corporation	15.00%	174A/370 179A/300
]	272A/588
	SWN Production Company, LLC Drilling Appalachian Corporation	15.00%	174A/206
	erning appearant corporation	13.00%	2, 774 200
ousband and wife Orilling Appalachian Corporation	Antero Resources Corporation		179A/300
g., pp	SWN Production Company, LLC		272A/588
	Drilling Appalachian Corporation	15.00%	174A/744
vife			
	Antero Resources Corporation		179A/300
	SWN Production Company, LLC		272A/588
Mackie R. Roberts, a widower	SWN Production Company, LLC	15.00%	283A/152
isa Marquart	Drilling Appalachian Corporation	18.00%	175A/176
Orilling 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
Drifling Appalachian Corporation	Antero Resources Corporation	•	179A/300
Antero Resources Corporation	SWN Production Company, LLC	15,00%	272A/588 166A/569
Leonard O. Haberbosch	Orifling Appalachian Corporation Antero Resources Corporation	15.00%	179A/300
Driffing Appalachian Corporation Antero Resources Corporation	SWN Production Company, LLC		272A/588
Laurie A. Shepard	Orilling 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
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1
Drilling Appalachian Corporation	Antero Resources Corporation		215A/930
Antero Resources Corporation	SWN Production Company, LLC		272A/58
Kim L. Hawkins	Drilling Appalachian Corporation	15.00%	174A/40
Drilling Appalachian Corporation	Antero Resources Corporation	1	179A/30
Antero Resources Corporation	SWN Production Company, LLC		272A/58
Kelly Kern	Drilling Appalachian Corporation	15.00%	174A/40
Drilling Appalachian Corporation	Antero Resources Corporation		179A/30 272A/58
Antero Resources Corporation	SWN Production Company, LLC	15.00%	174A/35
Kathy Albright	Orilling Appalachian Corporation	15.00%	179A/30
Drilling Appalachian Corporation	Antero Resources Corporation SWN Production Company, LLC		272A/S8
Antero Resources Corporation	SWN Production Company, LLC	15.00%	287A/85
Kathryn L Miller & Thomas F. Miller, wife and	STATE FLOODSHIPS COMPANY, CCC	23.00%	1 20.7400
husband Kathleen I. Francis	Drilling Appalachian Corporation	15.00%	202A/64
Drilling Appalachian Corporation	Antero Resources Corporation	1	215A/93
Antero Resources Corporation	SWN Production Company, LLC		272A/58
Raiph E. Jones and Karen Y. Jones, husband and wife	Driffing Appalachian Corporation	15.00%	165A/18
1			
Drifling Appalachian Corporation	Antero Resources Corporation		179A/30
Antero Resources Corporation	SWN Production Company, LLC		272A/58
Judy C. Parrish, a married woman dealing in her sole	SWN Production Company, LLC	15.00%	289A/35
and separate property			10010
Joseph Wilson	Drilling Appalachian Corporation	15.00%	189A/3:
Drilling Appalachian Corporation	Antero Resources Corporation		215A/9: 272A/5
Antero Resources Corporation	SWN Production Company, LLC	15,00%	166A/4
Joseph Leroy Kittle	Drilling Appalachian Corporation Antero Resources Corporation	13,00%	179A/3
Drilling Appalachian Corporation	SWN Production Company, LLC	ì	272/5
Antero Resources Corporation John Michael Bungard, a single man	SWN Production Company, LLC	18.00%	311A/4
John C. Frame	Orilling Appalachian Corporation	15.00%	174A/3
	Antero Resources Corporation		179A/3
Drilling Appalachian Corporation			1 222145
Orilling Appalachian Corporation Antero Resources Corporation	SWN Production Company, LLC		272A/5

4710303576

WV Department of Environmental Protection

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 410H
Wetzel County, West Virginia

Antero Resources Corporation	Jenus paradaria a			
Jill Wilging	SWN Production Company, LLC		272A/588	
Drilling Appalachian Corporation	Drilfing Appalachian Corporation Antero Resources Corporation	15.00%	199A/903	
Antero Resources Corporation	SWN Production Company, LLC		215A/930 272A/588	
leffrey 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. tausin Jeanetta M. Heath	SWN Production Company, LLC	18.00%	312A/404	
Drilling Appalachian Corporation	Drilling Appalachian Corporation	15.00%	202A/648	
Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		215A/930	
lean M. Shepard	Drilling Appalachian Corporation	15.00%	272A/588 173A/622	
Drilling Appalachian Corporation	Antero Resources Corporation	15.00%	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	Antero Resources Corporation		186A/150	
James W. Shepard	SWN Production Company, LLC Drilling Appalachian Corporation	45 000/	272A/588	
Drilling Appalachian Corporation	Antero Resources Corporation	15.00%	173A/647	
Antero Resources Corporation	SWN Production Company, LLC		179A/300 272A/588	
lames 5. Wilson and Ann D. Wilson, husband and wife	Drilling Appalachian Corporation	15.00%	195A/900	
	1		100.4000	
Drilling Appalachian Corporation	Antero Resources Corporation		215A/930	
Antero Resources Corporation	SWN Production Company, LLC		272A/S88	
James Lawrence Reid and Sherry Lynn Reid, husband	Drilling Appalachian Corporation	15.00%	189A/313	
and wife Drilling Appalachian Corporation	Antara Paravissas Carris III	ŀ	<u> </u>	
Antero Resources Corporation	Antero Resources Corporation	ı	215A/930	
lames Jeffrey Yeater	SWN Production Company, LLC Drilling Appalachian Corporation	12,000	272A/588	
Drilling Apparachian Corporation	Antero Resources Corporation	17.00%	174A/212 179A/300	
Antero Resources Corporation	SWN Production Company, LLC		272A/588	
ames Earnshaw	Drilling Appalachian Corporation	15.00%	202A/182	
Orilling Appalachian Corporation	Antero Resources Corporation		215A/930	
Antero Resources Corporation	SWN Production Company, LLC		272A/588	
Hubert Morris	Drilling Appalachian Corporation	15.00%	166A/501	
Drilling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation		179A/300	
Hester Loretta Dugan	SWN Production Company, LLC	45 000	272A/588	
Orilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	15.00%	174A/408	
Antero Resources Corporation	SWN Production Company, LLC		179A/300	
anice F. Brookover, a widow	Orilling Appalachian Corporation	15.00%	272A/588 202A/644	
Drilling Appalachian Corporation	Antero Resources Corporation	23.00%	215A/930	
Antero Resources Corporation	SWN Production Company, LLC	į	272A/588	
farold P. Richmond	Drilling Appalachian Corporation	17.00%	181A/56	
Orilling Appalachian Corporation	Antero Resources Corporation		186A/150	
Antero Resources Corporation Geraid E. Yeater, aka Elvin Yeater	SWN Production Company, LLC		272A/588	
Origing Appalachian Corporation	Drilfing Appalachian Corporation	15.00%	174A/406	
Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		179A/300	
Gerald B. Jones	Drilling Appalachian Corporation	15.00%	272A/588	
Orilling Appalachian Corporation	Antero Resources Corporation	15,00%	174A/748 179A/300	
Antero Resources Corporation	SWN Production Company, LLC		272A/588	
George T. Gale, Jr., a married man dealing in his sole	SWN Production Company, LLC	15.00%	283A/189	
nd separate property				
rederick M. Yeater & Sherl Yeater, husband and wife	Drilling Appalachian Corporation	15.00%	172A/584	
Orifling Appalachian Corporation	Antero Resources Corporation		179A/300	
Antero Resources Corporation Donald Rex Quigley and Ellen M. Quigley, husband	SWN Production Company, LLC	45.551	272A/588	
and wife	Orifling Appalachian Corporation	15.00%	177A/511	
Prilling Appalachian Corporation	Antero Resources Corporation		186A/150	
Intero Resources Corporation	SWN Production Company, LLC		272A/588	
larry B. Snyder and Elizabeth J. Snyder, husband and	Drilling Appalachian Corporation	15.00%	165A/193	
vife	·			
Orilling Appalachian Corporation	Antero Resources Corporation		179A/300	
Intero Resources Corporation	SWN Production Company, LLC		272A/588	
Orifling Appalachian Corporation	Drilling Appalachian Corporation	18.75%	215A/447	
Drilling Appalachian Corporation Intero Resources Corporation	Antero Resources Corporation		179A/300	
Onna S. Richmond	SWN Production Company, LLC	47.00%	272A/588	
Orilling Appalachian Corporation	Orilling Appalachian Corporation Antero Resources Corporation	17.00%	181A/58	
Intero Resources Corporation	SWN Production Company, LLC		186A/150 272A/588	
Ponald B. Wesley & Susan J. Wesley, as Joint Tenants	Drilling Appalachian Corporation	15.00%	166A/474	
vith Right of Survivorship	· - ·· · · · · · · · · · · · · · · · ·			
rilling Appalachian Corporation	Antero Resources Corporation		179A/300	
Intero Resources Corporation	SWN Production Company, LLC		272A/588	
liana S. Grafton & Timothy Grafton, husband and	Drilling Appalachian Corporation	15.00%	169A/302	
vife Irilling Appalachian Compression	A		<u></u>	
Milling Appalachian Corporation	Antero Resources Corporation		179A/300	
Intero Resources Corporation	SWN Production Company, LLC		272A/588	
Hilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	15.00%	173A/635 179A/364/2	1/202
intero Resources Corporation	SWN Production Company, LLC		179A/369 / 2 272A/588	1/202
Pavid Paul Resources, LLC	Antero Resources Corporation	15.00%	189A/925	
ntero Resources Corporation	SWN Production Company, LLC	13.00%	272A/588	
avid L. Gale & Jan Gaie, husband and wife	Drilling Appalachian Corporation	15.00%	176A/591	
rilling Appalachian Corporation	Antero Resources Corporation		179A/300	
ntero Resources Corporation	SWN Production Company, LLC			

EXHIBIT "A"

WV Department o

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 410H Wetzel County, West Virginia

		David Eugene Bungard, a married man dealing in his	SWN Production Company, LLC	18.00%	311A/455	
1		sole and separate property	Drilling Appalachian Corporation	15.00%	174A/760	
			Antero Resources Corporation		179A/300	
			SWN Production Company, LLC Drilling Appalachian Corporation	15.00%	272A/588 182A/54	
- 1			Antero Resources Corporation SWN Production Company, LLC		186A/150 272A/588	
		James Canfield Kline and Cynthia Lynn Kline, husband and wife		15.00%	174A/754	
		Drilling Appalachian Corporation	Antero Resources Corporation		179A/300	
		Colleen Heath McClain Moore a/k/a Colleen H.	SWN Production Company, LLC Drilling Appalachian Corporation	15.00%	272A/588 165A/765	
		McClain, widow Drilling Appalachian Corporation	Antero Resources Corporation		179A/300	
		Antero Resources Corporation Michael B. Shepard	SWN Production Company, LLC Drilling Appalachian Corporation	15.00%	272A/588 173A/633	
			Antero Resources Corporation SWN Production Company, LLC		179A/300 272A/588	
		Christina L. Cain, a single woman	SWN Production Company, LLC	15.00%	308A/59	
		Cheryl VanPelt Drilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	15,00%	176A/882 179A/300	
		Antero Resources Corporation Carolyn Jane Weller, a single woman	SWN Production Company, LLC SWN Production Company, LLC	15.00%	272A/588 290A/110	
		James H. Cunningham and Carlene Kay Yeater Cunningham, husband and wife Drilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	17.00%	177A/531 180A/73	
		Antero Resources Corporation Brett J. Lausin, a single man	SWN Production Company, LLC SWN Production Company, LLC	18.00%	272A/588 310A/759	
		Barbara Persinger	Drilling Appalachian Corporation	15.00%	174A/208	
		Drilling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		179A/300 272A/588	
		Barbara L. Barnhart & Walter Barnhart, husband and wife.	Drilling Appalachian Corporation	15.00%	202A/646	
		Drilling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		215A/930 272A/588	
		Arelena B. Horner & Quay A. Horner, husband and wife	Drilling Appalachian Corporation	15.00%	202A/640	
		Drilling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		215A/930 272A/588	
		Carolyn Ann Gale Linda Sue Frail	SWN Production Companay, LLC SWN Production Company, LLC	18.00%	Pending 317A/282	
3	1-10-51	Thomas Vernon Anderson Royalty Owner (subject to unitization filing dated	SWN Production Company, LLC	18.00% N/A	317A/276 N/A	42.6696%
	1710/92	March 3, 2023)			1	45,00307
		Yvonne M. Smith Drilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	18.00%	174A/372 179A/300	
		Antero Resources Corporation	SWN Production Company, LLC		0.00	
					272A/588	
		Yohna McPeek Drilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	15.00%	173A/655 179A/300	
		Drilling Appalachian Corporation Antero Resources Corporation Frederick M. Dean Rohrig, as Special Commissioner	Drilling Appalachian Corporation	15.00% 15.00%	173A/655	
		Drilling Appalachian Corporation Antero Resources Corporation 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 O Corporation, or successor, Francis Quigley, Gregory Steinhart, William G. Yeater, their missing, unknown, and abandoning	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation		173A/655 179A/300 272A/588	
		Drilling Appalachian Corporation Antero Resources Corporation 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 O Corporation, or successor, Francis Quigley, Gregory Steinhart, William	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation		173A/655 179A/300 272A/588 208A/92	21/2023

EXHIBIT "A"

WV Department of

Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Company, enter as Operator
William Ritchea WTZ 410H
Wetzel County, West Virginia

	ALCOHOL: N			
William Bernard Yeater a/k/a Bernard Yeater, a married man dealing in his sole and separate propert	SWN Production Company, LLC	18.00%	308A/433	
Arthur Workman and Vera Shirlene Workman, nusband and wife	Drilling Appalachian Corporation	16.50%	165A/183	
Orilling Appalachian Corporation	Antero Resources Corporation	İ	1701/200	
Antero Resources Corporation	SWN Production Company, LLC	i	179A/300 272A/588	
ohn K. Otto	Drifling Appalachian Corporation	15,00%	175A/173	
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300	
Intero Resources Corporation	SWN Production Company, LLC		272A/588	
Imothy Wayne Anderson Orifling Appalachian Corporation	Drilling Appalachian Corporation	15.00%	174A/204	
Antero Resources Corporation	Antero Resources Corporation		179A/300	
imothy Hinkle & Shannon Hinkle, husband and wife	SWN Production Company, LLC Drilling Appalachian Corporation	15.00%	272A/588 174A/750	
Oriting Appalachian Corporation	Antero Resources Corporation	13.00%	179A/300	
Intero Resources Corporation	SWN Production Company, LLC		272A/588	
hree Rivers Royafty II, LLC, Tiffany Culp - VP Land & egal	SWN Production Company, LLC	18.00%	294A/99	
hree Rivers Royalty II, LLC, Tiffany Culp - VP Land & egal	SWN Production Company, LLC	18.00%	300A/312	
todney Chester Lowe and Virginia Ann Lowe, nusband and wife	Drilling Appalachlan Corporation	15.00%	174A/758	
Rilling Appalachian Corporation	Antero Resources Corporation		179A/300	
Intero Resources Corporation	SWN Production Company, LLC		272A/588	
lobert Mock and Judith Mock, husband and wife	Drilling Appalachian Corporation	15.00%	174A/764	
Orilling Appalachian Corporation	Antero Resources Corporation		179A/300	
Antero Resources Corporation une Ann Reid	SWN Production Company, LLC		272A/588	
une ann keid Drilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	15.00%	174A/770 179A/300	
Intero Resources Corporation	SWN Production Company, LLC	1	179A/300 272A/588	
tosemary Lunemann	Drilling Appalachian Corporation	15.00%	173A/557	
Orilling Appalachian Corporation	Antero Resources Corporation		179A/300	
Antero Resources Corporation	SWN Production Company, LLC		272A/588	
Ferry W. Yeater	Orilling Appalachian Corporation	15.00%	182A/529	
Orilling Appalachian Corporation Notero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		186A/150	
erry W. Kittle and Deborah Kittle, husband and wife		15.00%	272A/588 174A/768	
Willing Appalachian Corporation	Antero Resources Corporation		186A/150	
Antero Resources Corporation	SWN Production Company, LLC		272A/588	
Ferrie L. Lausin, a single woman	SWN Production Company, LLC	15.00%	307A/362	
Richard Lee Parrish and Teri Lee Parrish, husband and	Orilling Appalachian Corporation	15.00%	165A/778	
wife	l			
Orifling Appalachian Corporation Orifling Appalachian Corporation	Antero Resources Corporation		179A/300	
Intero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC	İ	215A/930 272A/588	
iusan Inclan & Joseph C. Inclan	Drilling Appalachian Corporation	18.00%	177A/527	
Prilling Appalachian Corporation	Antero Resources Corporation		179A/300	
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	
	Antero Resources Corporation		1704/200	
Trilling Associathian Composition	•	l.	179A/300	
* · · ·	ISMM Production Company 11C			
Intero Resources Corporation	SWN Production Company, LLC SWN Production Company, LLC	20.00%	272A/588 266A/253	
Intero Resources Corporation Chiben Estates, Inc., a West Virginia Corporation	SWN Production Company, LLC		272A/588 266A/253	
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shelly Yeater	SWN Production Company, LLC Drilling Appalachian Corporation	20.00%	272A/588 266A/253 177A/521	
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shelly Yeater Orilling Appalachian Corporation	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation		272A/S88 266A/253 177A/521 179A/300	
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shelly Yeater Orilling Appalachian Corporation Antero Resources Corporation Ohn Edward Yeater and Sharon Lynn Yeater, husband	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC		272A/588 266A/253 177A/521	
Intero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shelly Yeater Drilling Appalachian Corporation Intero Resources Corporation Ohn Edward Yeater and Sharon Lynn Yeater, husband	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	18.00%	272A/S88 266A/253 177A/521 179A/300 272A/S88	
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shelly Yeater Orilling Appalachian Corporation Antero Resources Corporation Ohn Edward Yeater and Sharon Lynn Yeater, husband and wife Orilling Appalachian Corporation	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation	18.00%	272A/588 266A/253 177A/521 179A/300 272A/588 177A/523	
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shelly Yeater Orilling Appalachian Corporation Ohn Edward Yeater and Sharon Lynn Yeater, husband and wife Orilling Appalachian Corporation Antero Resources Corporation Sharon L. Yeater	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation	18.00%	272A/588 266A/253 177A/521 179A/300 272A/588 177A/523 179A/300 272A/588 181A/38	
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shelly Yeater Orilling Appalachian Corporation Antero Resources Corporation Ohn Edward Yeater and Sharon Lynn Yeater, husband and wife Orilling Appalachian Corporation Antero Resources Corporation Sharon L. Yeater Orilling Appalachian Corporation	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation	18.00%	272A/588 266A/253 177A/521 179A/300 272A/588 177A/523 179A/300 272A/588 181A/38 186A/150	
Antero Resources Corporation Shelly Yeater Orilling Appalachian Corporation On Edward Yeater and Sharon Lynn Yeater, husband and wife Orilling Appalachian Corporation On Edward Yeater and Sharon Lynn Yeater, husband and wife Orilling Appalachian Corporation Sharon L. Yeater Orilling Appalachian Corporation Sharon L. Yeater Orilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC	18.00% 17.00% 15.00%	272A/588 266A/253 177A/521 179A/300 272A/588 177A/523 179A/300 272A/588 181A/38 186A/150 272A/588	
Antero Resources Corporation Shelly Yeater Drilling Appalachian Corporation On Edward Yeater and Sharon Lynn Yeater, husband and wife Drilling Appalachian Corporation On Edward Yeater and Sharon Lynn Yeater, husband and wife Drilling Appalachian Corporation Antero Resources Corporation Sharon L. Yeater Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Conrad Sherwood Yeater	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation	18.00%	272A/588 266A/253 177A/521 179A/300 272A/588 177A/523 179A/300 272A/588 181A/38 185A/150 272A/588 174A/219	
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shelly Yeater Orilling Appalachian Corporation Antero Resources Corporation ohn Edward Yeater and Sharon Lynn Yeater, husband and wife Orilling Appalachian Corporation Antero Resources Corporation Sharon L, Yeater Orilling Appalachian Corporation Antero Resources Corporation Conrad Sherwood Yeater Orilling Appalachian Corporation Conrad Sherwood Yeater	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC	18.00% 17.00% 15.00%	272A/588 266A/253 177A/521 179A/300 272A/588 177A/523 179A/300 272A/588 181A/38 186A/150 272A/588 174A/219 179A/300	
Antero Resources Corporation Shelly Yeater Drilling Appalachian Corporation Antero Resources Corporation On Edward Yeater and Sharon Lynn Yeater, husband and wife Drilling Appalachian Corporation Antero Resources Corporation Sharon L. Yeater Chilling Appalachian Corporation Charon L. Yeater Chilling Appalachian Corporation Charon C. Seater Chilling Appalachian Corporation Conrad Sherwood Yeater Drilling Appalachian Corporation Conrad Sherwood Yeater Drilling Appalachian Corporation Conrad Resources Corporation Conrad Resources Corporation Conrad Resources Corporation Conrad Resources Corporation Conrad Resources Corporation Conrad Resources Corporation	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation	18.00% 17.00% 15.00%	272A/588 266A/253 177A/521 179A/300 272A/588 177A/523 179A/300 272A/588 181A/38 185A/150 272A/588 174A/219	
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shelly Yeater Orilling Appalachian Corporation Antero Resources Corporation Ohn Edward Yeater and Sharon Lynn Yeater, husband and wife Orilling Appalachian Corporation Antero Resources Corporation Sharon L. Yeater Orilling Appalachian Corporation Antero Resources Corporation Conrad Sherwood Yeater Orilling Appalachian Corporation Conrad Sherwood Yeater Orilling Appalachian Corporation Antero Resources Corporation Control Resources Corporation Control Resources Corporation Control Resources Corporation Control Resources Corporation Control Resources Corporation Control Resources Corporation Control Resources Corporation Control Resources Corporation Control Resources Corporation Control Resources Corporation Control Resources Corporation Control Resources Corporation Control Resources Corporation Control Resources Corporation Control Resources Corporation	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC SWN Production Company, LLC	18.00% 17.00% 15.00% 15.00%	272A/588 266A/253 177A/521 179A/300 272A/588 177A/523 179A/300 272A/588 181A/38 186A/150 272A/588 174A/219 179A/300 272A/588 304A/351	
Intero Resources Corporation Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater And Sharon Lynn Yeater, husband Inhelly Manager Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Yeater Inhelly	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	18.00% 17.00% 15.00%	272A/588 266A/253 177A/521 179A/300 272A/588 177A/523 179A/300 272A/588 181A/38 186A/150 272A/588 174A/219 179A/300 272A/588 304A/351	
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shelly Yeater Drilling Appalachian Corporation Antero Resources Corporation Only Edward Yeater and Sharon Lynn Yeater, husband and wife Drilling Appalachian Corporation Sharon L. Yeater Drilling Appalachian Corporation Antero Resources Corporation Conrad Sherwood Yeater Dorilling Appalachian Corporation Control Sherwood Yeater Drilling Appalachian Corporation Control Corporation Control Charris and Carolyn R. Harris, husband and wife Standy Cumpston Drilling Appalachian Corporation Cott C. Harris and Carolyn R. Harris, husband and wife Standy Cumpston Drilling Appalachian Corporation	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Drilling Appalachian Corporation	18.00% 17.00% 15.00% 15.00%	272A/588 266A/253 177A/521 179A/300 272A/588 177A/523 179A/300 272A/588 181A/38 186A/150 272A/588 174A/219 179A/300 272A/588 304A/351	
Intero Resources Corporation Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Yeater Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inhelly Resources Corporation Inheron L. Yeater Inhelling Appalachian Corporation Inheron L. Yeater Inhelling Appalachian Corporation Inheron Resources Corporation Inhell Yeater Inhelly Y	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation	18.00% 17.00% 15.00% 15.00%	272A/588 266A/253 177A/521 179A/300 272A/588 177A/523 179A/300 272A/588 181A/38 186A/150 272A/588 174A/219 179A/300 272A/588 304A/351	
Antero Resources Corporation Shelly Yeater Drilling Appalachian Corporation Shelly Yeater Drilling Appalachian Corporation On Edward Yeater and Sharon Lynn Yeater, husband and wife Drilling Appalachian Corporation Sharon L. Yeater Drilling Appalachian Corporation Sharon L. Yeater Drilling Appalachian Corporation Conrad Sherwood Yeater Drilling Appalachian Corporation Conrad Sherwood Yeater Drilling Appalachian Corporation Control Resources Corporation Control Resources Corporation Cott C. Harris and Carolyn R. Harris, husband and wife Sandy Cumpston Drilling Appalachian Corporation Control Composition Control Compositi	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation	18.00% 17.00% 15.00% 15.00%	272A/S88 266A/253 177A/521 179A/300 272A/S88 177A/523 179A/300 272A/S88 181A/38 186A/150 272A/S88 174A/219 179A/300 272A/S88 304A/351 174A/202 179A/300 272A/S88 174A/202 179A/300 272A/S88	
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shiben Estates, Inc., a West Virginia Corporation Shiben Estates, Inc., a West Virginia Corporation Shiben Resources Corporation Ohn Edward Yeater and Sharon Lynn Yeater, husband and wife Drilling Appalachian Corporation Sharon L. Yeater Drilling Appalachian Corporation Antero Resources Corporation Conrad Sherwood Yeater Drilling Appalachian Corporation Antero Resources Corporation Sources Corporation Cott C. Harris and Carolyn R. Harris, husband and wife Sandy Cumpston Drilling Appalachian Corporation Antero Resources Corporation Sandra C. Koontz Drilling Appalachian Corporation Sandra C. Koontz Drilling Appalachian Corporation Antero Resources Corporation Sandra C. Koontz Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC	18.00% 17.00% 15.00% 15.00% 15.00%	272A/588 266A/253 177A/521 179A/300 272A/588 177A/523 179A/300 272A/588 181A/38 186A/150 272A/588 174A/219 179A/300 272A/588 304A/351 174A/202 179A/300 272A/588 174A/354 179A/300 272A/588	
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shelly Yeater Sprilling Appalachian Corporation On Edward Yeater and Sharon Lynn Yeater, husband and wife Orilling Appalachian Corporation Unitero Resources Corporation Unitero Resources Corporation Unitero Resources Corporation Unitero Resources Corporation Conrad Sherwood Yeater Orilling Appalachian Corporation Unitero Resources Corporation	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation	18.00% 17.00% 15.00% 15.00%	272A/S88 266A/253 177A/521 179A/300 272A/S88 177A/523 179A/300 272A/S88 181A/38 186A/150 272A/S88 304A/351 174A/219 179A/300 272A/S88 174A/252 179A/300 272A/S88 174A/354 179A/300 272A/S88	
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shelly Yeater Drilling Appalachian Corporation On Edward Yeater and Sharon Lynn Yeater, husband and wife Drilling Appalachian Corporation Sharon L, Yeater Drilling Appalachian Corporation Sharon L, Yeater Drilling Appalachian Corporation Sharon L, Yeater Drilling Appalachian Corporation Sharon Corporation Sharon Corporation Sources Corporation Statero Resources Corporation Sandra C. Koontz Drilling Appalachian Corporation Sandra C. Koontz Drilling Appalachian Corporation Statero Resources Cor	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation	18.00% 17.00% 15.00% 15.00% 15.00%	272A/S88 266A/253 177A/521 179A/300 272A/S88 177A/523 179A/300 272A/S88 181A/38 186A/150 272A/S88 304A/351 174A/219 179A/300 272A/S88 174A/252 179A/300 272A/S88 174A/354 179A/300 272A/S88	21/202
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shiben Estates, Inc., a West Virginia Corporation Shelly Yeater Orilling Appalachian Corporation Ohn Edward Yeater and Sharon Lynn Yeater, husband and wife Orilling Appalachian Corporation Sharon L. Yeater Orilling Appalachian Corporation Antero Resources Corporation Conrad Sherwood Yeater Orilling Appalachian Corporation Statero Resources Corporation Control Sharon Corporation Control Sharon Corporation Control Sharon Corporation Control Sharon Corporation Control Sharon Corporation Control Corporation Control Corporation Control Corporation Control Corporation Control Resources	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation	18.00% 17.00% 15.00% 15.00% 15.00%	272A/588 266A/253 177A/521 179A/300 272A/588 177A/523 179A/300 272A/588 181A/38 186A/150 272A/588 174A/219 179A/300 272A/588 304A/351 174A/202 179A/300 272A/588 174A/354 179A/300 272A/588	21/202
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shiben Estates, Inc., a West Virginia Corporation Shelly Yeater Orilling Appalachian Corporation Ohn Edward Yeater and Sharon Lynn Yeater, husband and wife Orilling Appalachian Corporation Sharon L, Yeater Orilling Appalachian Corporation Antero Resources Corporation Conrad Sherwood Yeater Orilling Appalachian Corporation Antero Resources Corporation Control Sherwood Yeater Orilling Appalachian Corporation Antero Resources Corporation Cott C. Harris and Carolyn R. Harris, husband and wife Sandy Cumpston Orilling Appalachian Corporation Antero Resources Corporation	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	18.00% 17.00% 15.00% 15.00% 15.00% 18.00%	272A/588 266A/253 177A/521 179A/300 272A/588 177A/523 179A/300 272A/588 185A/150 272A/588 174A/219 179A/300 272A/588 304A/351 174A/202 179A/300 272A/588 174A/354 179A/300 272A/588 174A/354 179A/300 272A/588	21/202
Orilling Appalachian Corporation Antero Resources Corporation Shelly Yeater Orilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation On Edward Yeater and Sharon Lynn Yeater, husband and wife Orilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Conrad Sherwood Yeater Orilling Appalachian Corporation Antero Resources Corporation Conrad Sherwood Yeater Orilling Appalachian Corporation Antero Resources Corporation Sandy Cumpston Orilling Appalachian Corporation Antero Resources Corporation	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	18.00% 17.00% 15.00% 15.00% 15.00% 15.00% 15.00%	272A/S88 266A/253 177A/521 179A/300 272A/S88 177A/523 179A/300 272A/S88 181A/38 186A/150 272A/S88 174A/219 179A/300 272A/S88 304A/351 174A/202 179A/300 272A/S88 174A/354 179A/300 272A/S88 174A/357 179A/300 272A/S88 174A/357 179A/300 272A/S88 174A/355 179A/300 272A/S88	21/202
Antero Resources Corporation Shiben Estates, Inc., a West Virginia Corporation Shiben Estates, Inc., a West Virginia Corporation Shiben Estates, Inc., a West Virginia Corporation Antero Resources Corporation Ohn Edward Yeater and Sharon Lynn Yeater, husband and wife Drilling Appalachian Corporation Antero Resources Corporation Sharon L, Yeater Drilling Appalachian Corporation Conrad Sherwood Yeater Drilling Appalachian Corporation Antero Resources Corporation Cont C. Harris and Carolyn R. Harris, husband and wife Sandy Cumpston Drilling Appalachian Corporation Antero Resources Corporation Sandra C. Koontz Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Control Resources Corporation Antero Resources Corporation	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC	18.00% 17.00% 15.00% 15.00% 15.00% 18.00%	272A/S88 266A/253 177A/521 179A/300 272A/S88 177A/523 179A/300 272A/S88 186A/150 272A/S88 174A/219 179A/300 272A/S88 304A/351 174A/202 179A/300 272A/S88 174A/354 179A/300 272A/S88 174A/354 179A/300 272A/S88 174A/354 179A/300 272A/S88	21/202

APR 1 8 2023

EXHIBIT "A"

WV Department or

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 Protection William Ritchea WTZ 410H

West Virginia

hirley Gbur	Drilling Appalachian Corporation	15 004/	1744/402
rilling Appalachian Corporation	Antero Resources Corporation	15.00%	174A/402 179A/300
intero Resources Corporation	SWN Production Company, LLC		272A/588
econ Resources, LLC, a Texas Limited Liability	Antero Resources Corporation	15.00%	190A/3
ompany d/b/a Recon royalties	L		
ntero Resources Corporation ebecca J. Norris	SWN Production Company, LLC		272A/588
Prilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	15.00%	174A/216
ntero Resources Corporation	SWN Production Company, LLC		179A/300 272A/588
ebecca Ann Haley	Drilling Appalachian Corporation	15.00%	174A/352
rilling Appalachian Corporation	Antero Resources Corporation	1	179A/300
Intero Resources Corporation	SWN Production Company, LLC		272A/588
achel Anne Yeater, single Filling Appalachian Corporation	Drilling Appalachlan Corporation	15.00%	165A/185
attero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC	1	179A/300
lancy Truex	Drilling Appalachian Corporation	17.00%	272A/588
rilling Appalachian Corporation	Antero Resources Corporation	17.00%	181A/60 186A/150
intero Resources Corporation	SWN Production Company, LLC	1	272A/588
hester Holloway and Nancy Holloway, husband and	Orilling Appalachian Corporation	15.00%	174A/348
rife			
Irilling Appalachian Corporation Intero Resources Corporation	Antero Resources Corporation	j	179A/300
lancy J. Foti	SWN Production Company, LLC Orifling Appalachian Corporation	45.460	272A/588
milling Appalachian Corporation	Antero Resources Corporation	15.00%	174A/871 179A/300
ntero Resources Corporation	SWN Production Company, LLC		272A/588
Monica A. Renn	Drilling Appalachian Corporation	18.00%	174A/375
Prilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/S88
Aelissa Schroth Prilling Appalachian Corporation	Drilling Appalachian Corporation	15.00%	173A/653
Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		179A/300
Aelissa Mae Bungard, a single woman	SWN Production Company, LLC	18.00%	272A/588 311A/443
Beatrice Joan Yeater Knight	Orilling Appalachian Corporation	17.00%	174A/396
Prilling 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
Orifling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation Martha Carol Grimes	SWN Production Company, LLC Driffing Appalachian Corporation	15.00%	272A/588
Orilling Appalachian Corporation	Antero Resources Corporation	15.00%	178A/380 186A/150
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Marguerite Harbison	Drilling Appalachian Corporation	15.00%	173A/661
Orilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
inda K. Morris Wilson Orilling Appalachian Corporation	Drilling Appalachian Corporation	15.00%	174A/756
Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		179A/300 272A/588
Mark Hunt	Drilling Appalachlan Corporation	15.00%	174A/370
Orilling Appalachian Corporation	Antero Resources Corporation	25.00%	179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
lames Mark Edwards and Marilyn S. Edwards,	Orilling Appalachian Corporation	15.00%	174A/206
husband and wife			
Drilling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation		179A/300
Casey Couch and Marian Blair Couch, husband and	SWN Production Company, LLC Drilling Appalachlan Corporation	15.00%	272A/588 174A/744
wife	Criming Appared their Corporation	13.00%	1/4/4/44
Drilling Appalachian Corporation	Antero Resources Corporation	l	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	Driffing Appalachian Corporation	18.00%	175A/176
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation Lewis W. Otto	SWN Production Company, LLC Orilling Appalachian Corporation	15.00%	272A/588
Drilling Appalachian Corporation	Antero Resources Corporation	15.00%	176A/593 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	Orifling Appalachian Corporation	15.00%	173A/620
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation Kimeric and Company, LLC	SWN Production Company, LLC Drilling Appalachian Corporation	16,00%	272A/588 206A/584
		10.00%	20079304
Orilling Appalachian Corporation	Antero Resources Corporation		215A/930
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Kirn L. Hawkins	Drilling Appalachian Corporation	15.00%	174A/400
Orilling 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
Orilling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		179A/300
Kathy Albright	Drilling Appalachian Corporation	15.00%	272A/381/121/2
Drilling Appalachian Corporation	Antero Resources Corporation	23.00%	179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Kathryn L. Miller & Thomas F. Miller, wife and	SWN Production Company, LLC	15.00%	287A/852
husband			

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oll and Gas Form, WW-6A1, by SWN Production Company I.L.C. as Operator William Protection Prot William Ritchea WTZ 410H Wetzel County, West Virginia

Antern Resources Company	Antero Resources Corporation		215A/930
Antero Resources Corporation Lalph E. Jones and Karen Y. Jones, husband and wife	SWN Production Company, LLC Drilling Appalachian Corporation		272A/588
The state of the s	Drining Apparachian Corporation	15.00%	165A/181
Orifing Appalachian Corporation	Antero Resources Corporation	İ	179A/300
untero Resources Corporation	SWN Production Company, LLC		272A/588
udy C. Parrish, a married woman dealing in her sole	SWN Production Company, LLC	15.00%	289A/351
nd separate property oseph Wilson	Pudition has a label of the control		
Orifing Appalachian Corporation	Drilling Appalachian Corporation	15.00%	189A/311
Intero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		215A/930
oseph Leroy Kittle	Drilling Appalachian Corporation	15.00%	272A/588 166A/495
Prilling Appalachian Corporation	Antero Resources Corporation	25.05%	179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
ohn Michael Bungard, a single man ohn C. Frame	SWN Production Company, LLC	18.00%	311A/449
onn C. Frame Drilling Appalachian Corporation	Drilling Appalachian Corporation	15.00%	174A/350
Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		179A/300
oAnn Davis	Drilling Appalachian Corporation	15.00%	272A/588 201A/288
Priling Appalachian Corporation	Antero Resources Corporation] 20.00%	215A/930
Antero Resources Corporation	SWN Production Company, LLC		272A/588
ill Wilging	Drilling Appalachian Corporation	15.00%	199A/903
Orilling Appalachian Corporation Unitero Resources Corporation	Antero Resources Corporation		215A/930
effrey Wilson	SWN Production Company, LLC Drilling Appalachian Corporation	15.00%	272A/588
Orilling Appalachian Corporation	Antero Resources Corporation	13.00%	189A/309 179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
effrey A. Lausin	SWN Production Company, LLC	18.00%	312A/404
eanetta M. Heath	Drilling Appalachian Corporation	15.00%	202A/648
Orilling Appalachian Corporation	Antero Resources Corporation	1	215A/930
Intero Resources Corporation ean M. Shepard	SWN Production Company, LLC		272A/588
Prilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	15.00%	173A/622 179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
anet Hilpert	Drilling Appalachian Corporation	15.00%	181A/62
Orilling Appalachian Corporation	Antero Resources Corporation		186A/150
Intero Resources Corporation	SWN Production Company, LLC		272A/588
ames W. Shepard Prilling Appalachian Corporation	Orilling Appalachian Corporation	15.00%	173A/647
ntero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		179A/300
ames S. Wilson and Ann D. Wilson, husband and wife	Drilling Appalachian Corporation	15.00%	272A/588 195A/900
Intero Resources Corporation ames Lawrence Reid and Sherry Lynn Reid, husband	SWN Production Company, LLC Drilling Appalachian Corporation	15.00%	272A/588 189A/313
and wife		İ	
Orifling Appalachian Corporation	Antero Resources Corporation		215A/930
Antero Resources Corporation ames Jeffrey Yeater	SWN Production Company, U.C Drilling Appalachian Corporation	12.00%	272A/588
Drilling Appalachian Corporation	Antero Resources Corporation	17.00%	174A/212 179A/300
	SWN Production Company, LLC		
ntero Resources Corporation			· .
	Drilling Appalachian Corporation	15.00%	272A/588 202A/182
ames Earnshaw Drilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	15.00%	272A/588
ames Earnshaw Drilling Appalachian Corporation Antero Resources Corporation	Drifting Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC		272A/588 202A/182 215A/930 272A/588
ames Earnshaw Orilling Appalachian Corporation Antero Resources Corporation Hubert Momis	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation	15.00%	272A/588 202A/182 215A/930 272A/588 166A/501
ames Earnshaw Orilling Appalachian Corporation Antero Resources Corporation Hubert Morris Orilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation		272A/588 202A/182 215A/930 272A/588 166A/501 179A/300
ames Earnshaw Drilling Appalachian Corporation Antero Resources Corporation Hubert Morris Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC		272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588
ames Earnshaw Orilling Appalachian Corporation Antero Resources Corporation Hubert Morris Orilling Appalachian Corporation Antero Resources Corporation Hester Loretta Dugan	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation	15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300
ames Earnshaw Irilling Appalachian Corporation Intero Resources Corporation Intero Resources Corporation Intero Resources Corporation Intero Resources Corporation Iester Loretta Dugan Irilling Appalachian Corporation Intero Resources Corporation Intero Resources Corporation Intero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation	15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408
ames Earnshaw Drilling Appalachian Corporation Author Resources Corporation Author Morris Drilling Appalachian Corporation Author Resources Corporation Author Resources Corporation Author Dugan Brilling Appalachian Corporation Author Resources Corporation Author Resources Corporation Author Resources Corporation anice F. Brookover, a widow	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation	15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 202A/644
ames Earnshaw Orilling Appalachian Corporation Autero Resources Corporation Authoris Orilling Appalachian Corporation Autero Resources Corporation Autero Resources Corporation Herster Loretta Dugan Forilling Appalachian Corporation Autero Resources Corporation Autero Resources Corporation Banice F. Brookover, a widow Orilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation	15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 202A/644 215A/930
ames Earnshaw Orilling Appalachian Corporation Autero Resources Corporation Autero Maris Orilling Appalachian Corporation Autero Resources Corporation Destero Resources Corporation Destero Appalachian Corporation Autero Resources Corporation Autero Resources Corporation Destero Resources Corporation Destero Resources Corporation Destero Resources Corporation Destero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC	15.00% 15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 202A/644 215A/930 272A/588
ames Earnshaw Orilling Appalachian Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Appalachian Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation Autero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation	15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 202A/644 215A/930 272A/588 181A/56
ames Earnshaw Orilling Appalachian Corporation Antero Resources Corporation Author Resources Corporation Antero Resources Corporation Antero Resources Corporation Action Appalachian Corporation Author Resources Corporation Author Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC	15.00% 15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 202A/644 215A/930 272A/588
ames Earnshaw Irilling Appalachian Corporation Intero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation	15.00% 15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 202A/644 215A/930 272A/588 181A/56 186A/150
ames Earnshaw Irilling Appalachian Corporation Intero Resources Corporatio	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation	15.00% 15.00% 15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 202A/644 215A/930 272A/588 181A/56 186A/150 272A/588
ames Earnshaw Irilling Appalachian Corporation Intero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00% 15.00% 15.00% 17.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 202A/644 215A/930 272A/588 181A/56 186A/150 272A/588 174A/406 179A/300 272A/588
emes Earnshaw Irilling Appalachian Corporation Intero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC	15.00% 15.00% 15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 181A/56 186A/150 272A/588 174A/406 179A/300 272A/588 174A/48
omes Earnshaw rilling Appalachian Corporation ntero Resources Corporation ubert Morris rilling Appalachian Corporation ntero Resources Corporation ester Loretta Dugan rilling Appalachian Corporation ntero Resources Corporation ontero Resources Corporation entero Resources Corporation ntero Resources Corporation ero Resources Corporation ntero Resources Corporation ntero Resources Corporation eraid E. Yeater, aka Elvin Yeater rilling Appalachian Corporation ntero Resources Corporation eraid B. Jones rilling Appalachian Corporation eraid B. Jones rilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation	15.00% 15.00% 15.00% 17.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 181A/56 186A/150 272A/588 174A/406 179A/300 272A/588 174A/406 179A/300
omes Earnshaw rilling Appalachian Corporation ntero Resources Corporation ubert Morris rilling Appalachian Corporation ntero Resources Corporation ester Loretta Dugan rilling Appalachian Corporation ntero Resources Corporation unice F. Brookover, a widow rilling Appalachian Corporation ntero Resources Corporation ntero Resources Corporation ntero Resources Corporation ntero Resources Corporation ntero Resources Corporation erilling Appalachian Corporation ntero Resources Corporation ntero Resources Corporation ntero Resources Corporation ntero Resources Corporation erilling Appalachian Corporation ntero Resources Corporation erald B. Jones rilling Appalachian Corporation ntero Resources Corporation erald B. Jones rilling Appalachian Corporation ntero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00% 15.00% 15.00% 17.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 181A/56 186A/150 272A/588 174A/406 179A/300 272A/588 174A/406 179A/300 272A/588
emes Earnshaw Irilling Appalachian Corporation Intero Resources	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation	15.00% 15.00% 15.00% 17.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 181A/56 186A/150 272A/588 174A/406 179A/300 272A/588 174A/406 179A/300
armes Earnshaw Irilling Appalachian Corporation Intero Resources Corporat	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC SWN Production Company, LLC	15.00% 15.00% 15.00% 17.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 181A/56 186A/150 272A/588 174A/406 179A/300 272A/588 174A/406 179A/300 272A/588
armes Earnshaw Drilling Appalachian Corporation Author Resources Corporation Author Morris Drilling Appalachian Corporation Author Resources Corporation Dester Loretta Dugan Drilling Appalachian Corporation Author Resources Corporation Author Resources Corporation Author Resources Corporation Author Resources Corporation Author Resources Corporation Herrich	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation	15.00% 15.00% 15.00% 17.00% 15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 181A/56 186A/150 272A/588 174A/406 179A/300 272A/588 174A/48 179A/300 272A/588 174A/48 179A/300 272A/588
armes Earnshaw Drilling Appalachian Corporation Antero Resources Corporation Author Morris Drilling Appalachian Corporation Antero Resources Corporation Antero	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC	15.00% 15.00% 15.00% 17.00% 15.00% 15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 202A/644 215A/930 272A/588 181A/56 186A/150 272A/588 174A/406 179A/300 272A/588 174A/748 179A/300 272A/588 283A/189
armes Earnshaw Orilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Gerald E. Yeater, aka Elvin Yeater Orilling Appalachian Corporation Antero Resources Corporation Gerald B. Jones Orilling Appalachian Corporation Antero Resources Corporation Gerald B. Jones Orilling Appalachian Corporation Antero Resources Corporation Gerald B. Jones Orilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation George T. Gale, Jr., a married man dealing in his sole and separate property Frederick M. Yeater & Sheri Yeater, husband and wife Orilling Appalachian Corporation Antero Resources Corpora	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation	15.00% 15.00% 15.00% 17.00% 15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 181A/56 186A/150 272A/588 174A/406 179A/300 272A/588 174A/48 179A/300 272A/588 174A/48 179A/300 272A/588
ames Earnshaw Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Gerald E. Yeater, aka Elvin Yeater Drilling Appalachian Corporation Antero Resources Corporation Gerald B. Jones Drilling Appalachian Corporation Antero Resources Corporation George T. Gale, Jr., a married man dealing in his sole and separate property Frederick M. Yeater & Sheri Yeater, husband and wife Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Donald Rex Quigley and Ellen M. Quigley, husband And wife	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC	15.00% 15.00% 15.00% 17.00% 15.00% 15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 202A/644 215A/930 272A/588 181A/56 186A/150 272A/588 174A/406 179A/300 272A/588 174A/48 179A/300 272A/588 283A/189
ames Earnshaw Orilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Berald E. Yeater, aka Elvin Yeater Orilling Appalachian Corporation Antero Resources Corporation Serald B. Jones Orilling Appalachian Corporation Antero Resources Corporation George T. Gale, Jr., a married man dealing in his sole and separate property Frederick M. Yeater & Sheri Yeater, husband and wife Orilling Appalachian Corporation Antero Resources Corporation Antero R	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation	15.00% 15.00% 15.00% 17.00% 15.00% 15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 202A/644 215A/930 272A/588 181A/56 186A/150 272A/588 174A/406 179A/300 272A/588 174A/48 179A/300 272A/588 283A/189
Antero Resources Corporation ames Earnshaw Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Gerald E. Yeater, aka Elvin Yeater Drilling Appalachian Corporation Antero Resources Corporation Gerald B. Jones Drilling Appalachian Corporation Antero Resources Corporation Gerald B. Jones Drilling Appalachian Corporation Antero Resources Corporation Gerald B. Jones Drilling Appalachian Corporation Antero Resources Corporation George T. Gale, Jr., a married man dealing in his sole and separate property Frederick M. Yeater & Sheri Yeater, husband and wife Drilling Appalachian Corporation Antero Resources Corporation Oonald Rex Quigley and Ellen M. Quigley, husband Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC	15.00% 15.00% 15.00% 17.00% 15.00% 15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 202A/644 215A/930 272A/588 181A/56 186A/150 272A/588 174A/406 179A/300 272A/588 174A/48 179A/300 272A/588 283A/189
armes Earnshaw Orilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Defend B. Jones Orilling Appalachian Corporation Antero Resources Corporation Defend Resources Corporation Defend Resources Corporation Defend Resources Corporation Defend Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Donald Rex Quigley and Ellen M. Quigley, husband Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation	15.00% 15.00% 15.00% 15.00% 15.00% 15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 202A/644 215A/930 272A/588 181A/56 186A/150 272A/588 174A/406 179A/300 272A/588 174A/748 179A/300 272A/588 283A/189 172A/584 179A/300 272A/588 174A/748 179A/300 272A/588 174A/748 179A/300 272A/588 174A/748 179A/300 272A/588 177A/511
armes Earnshaw Orilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation	15.00% 15.00% 15.00% 15.00% 15.00% 15.00%	272A/\$88 202A/182 215A/930 272A/\$88 166A/501 179A/300 272A/\$88 174A/408 179A/300 272A/\$88 181A/56 186A/150 272A/\$88 174A/406 179A/300 272A/\$88 174A/748 179A/300 272A/\$88 172A/\$88 172A/\$88 172A/\$88 172A/\$88 172A/\$88 179A/300 272A/\$88 179A/300 272A/\$88 179A/300 272A/\$88 179A/300 272A/\$88
ames Earnshaw Orilling Appalachian Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Gerald E. Yeater, aka Elvin Yeater Orilling Appalachian Corporation Antero Resources Corporation Gerald B. Jones Orilling Appalachian Corporation Antero Resources Corporation Gerald B. Jones Orilling Appalachian Corporation Antero Resources Corporation George T. Gale, Jr., a married man dealing in his sole and separate property Frederick M. Yeater & Sheri Yeater, husband and wife Orilling Appalachian Corporation Antero Resources Corporation Onald Rex Quigley and Ellen M. Quigley, husband Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation	15.00% 15.00% 15.00% 15.00% 15.00% 15.00%	272A/588 202A/182 215A/930 272A/588 166A/501 179A/300 272A/588 174A/408 179A/300 272A/588 202A/644 215A/930 272A/588 181A/56 186A/150 272A/588 174A/406 179A/300 272A/588 174A/748 179A/300 272A/588 283A/189 172A/584 179A/300 272A/588 174A/748 179A/300 272A/588 174A/748 179A/300 272A/588 174A/748 179A/300 272A/588 177A/511

RECEIVED
Office of Oil and Gas
APR 1 8 2023

Environmental prolemge.

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 410H

Wetzel County, West Virginia

Antero Resources Corporation	SWN Production Company, LLC	1 1	272A/588
Donna S. Richmond	Orilling Appalachian Corporation	17,00%	181A/58
Drilling Appalachian Corporation	Antero Resources Corporation	27.00%	186A/150
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Donald B. Wesley & Susan J. Wesley, as Joint Tenants	Drilling Appalachian Corporation	15.00%	166A/474
with Right of Survivorship		13.55%	1000474
Orilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		· .
Diana S. Grafton & Timothy Grafton, husband and	Orilling Appalachian Corporation	15.00%	272A/588
wife	- Thing repulse (hat) corporation	15.00%	169A/302
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		
Dawn Wrezinski	Drilling Appalachian Corporation	15.00%	272A/588
Drilling Appalachian Corporation	Antero Resources Corporation	15.00%	173A/635
Antero Resources Corporation	SWN Production Company, LLC	1	179A/300
David Paul Resources, LLC	Antero Resources Corporation	45.004	272A/588
Antero Resources Corporation	SWN Production Company, LLC	15.00%	189A/925
David L. Gale & Jan Gale, husband and wife	Drilling Appalachian Corporation	45.004	272A/588
Drilling Appalachian Corporation		15.00%	176A/S91
Antero Resources Corporation	Aritero Resources Corporation		179A/300
David Eugene Bungard, a married man dealing in his	SWN Production Company, LLC		272A/588
	SWN Production Company, LLC	18.00%	311A/455
sole and separate property	(mailte a second and a second a		
David E. Lowe and Sharon K. Lowe, husband and wife	Orifling Appalachian Corporation	15.00%	174A/760
Padilland Amenda aktion of the	l		
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Darrel Yeater	Drilling Appalachlan Corporation	15.00%	182A/54
Orilling Appalachian Corporation	Antero Resources Corporation		186A/150
Antero Resources Corporation	SWN Production Company, LLC		272A/588
James Canfield Kline and Cynthia Lynn Kline, husband	Drilling Appalachlan Corporation	15.00%	174A/754
and wife			
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Colleen Heath McClain Moore a/k/a Colleen H.	Drilling Appalachian Corporation	15.00%	165A/765
McClain, widow			
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Michael B. Shepard	Drilling Appalachian Corporation	15.00%	173A/633
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Christina L. Cain, a single woman	SWN Production Company, LLC	15.00%	308A/59
Cheryl VanPelt	Drilling Appalachian Corporation	15.00%	176A/882
Drilling Appalachian Corporation	Antero Resources Corporation	13.50%	179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Carolyn Jane Weller, a single woman	SWN Production Company, LLC	15 000/	
James H. Cunningham and Carlene Kay Yeater	Drilling Appalachian Corporation	15.00%	290A/110
Cunningham, husband and wife	Torning Apparachian Corporation	17.00%	177A/531
Drilling Appalachlan Corporation	Antora Pasauscas Casauscaii		
Antero Resources Corporation	Antero Resources Corporation		180A/73
	SWN Production Company, LLC	40.000	272A/588
Brett J. Lausin, a single man	SWN Production Company, LLC	18.00%	310A/759
Barbara Persinger	Drilling Appalachian Corporation	15.00%	174A/208
Orilling Appalachian Corporation	Antero Resources Corporation	1	179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
	Drilling Appalachian Corporation	15.00%	202A/646
Barbara L. Barnhart & Walter Barnhart, husband and	G . Therearen eachermen		
wife			
wife Drilling Appalachian Corporation	Antero Resources Corporation		215A/930
wife Drilling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		215A/930 272A/588
wife Drilling Appalachian Corporation Antero Resources Corporation Arelena B. Horner & Quay A. Horner, husband and	Antero Resources Corporation	15.00%	
wife Drilling Appalachian Corporation Antero Resources Corporation Arelena B. Horner & Quay A. Horner, husband and wife	Antero Resources Corporation SWN Production Company, LLC	15.00%	272A/588
wife Drilling Appalachian Corporation Antero Resources Corporation Arelena B. Horner & Quay A. Horner, husband and	Antero Resources Corporation SWN Production Company, LLC	15.00%	272A/588
wife Drilling Appalachian Corporation Antero Resources Corporation Arelena B. Horner & Quay A. Horner, husband and wife Drilling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation	15.00%	272A/588 202A/640
wife Drilling Appalachian Corporation Antero Resources Corporation Arelena B. Horner & Quay A. Horner, husband and wife Drilling Appalachian Corporation	Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation	15.00%	272A/588 202A/640 215A/930
wife Drilling Appalachian Corporation Antero Resources Corporation Arelena B. Horner & Quay A. Horner, husband and wife Drilling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC		272A/588 202A/640 215A/930 272A/588



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

March 3, 2023

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

RE: SWN's proposed New Well: William Ritchea WTZ 410H in Wetzel County, West Virginia, Drilling under Harlan Ridge Road, 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-Harlan Ridge Road, 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

RE AV+

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

	ce Certification:			API No. 4			and the Committee of th
							n Ritchea WTZ 410H
				Well Pad	ame:	William R	Ritchea WTZ
votice has	been given:						A.D. A. S. S. A. S
	ne provisions in West Virginia Cod	e § 22-	6A, the Operator has prove	ided the red	quired pa	arties w	ith the Notice Forms liste
elow for the	tract of land as follows:			Grand I		-14-	
tate:	West Virginia		UTM NAD 83	Easting:	529,213	-	
ounty:	103-Wetzel			Northing:	4,391,13		
istrict:	Proctor		Public Road Acc		-	lidge Roa	<u>d</u>
uadrangle:	Wileyville		Generally used fa	ırm name:	William I	Ritchea	
Vatershed:	Fish Creek		_				
- Build - od	c & 22-071-11(0), the apprount site	II tende	er proof of and certify to the	he secretary	that the	notice	ner; and Pursuant to Wa requirements of section to
f this article Pursuant to	have been completed by the application. West Virginia Code § 22-6A, the cerator has properly served the requirements.	Operate	er proof of and certify to the proof to the	he secretary	that the	notice	requirements of section t
f this article Pursuant to that the Ope	have been completed by the application. West Virginia Code § 22-6A, the	Operate	er proof of and certify to the proof to the	he secretary	that the	notice	oog office USE
f this article Pursuant to that the Ope *PLEASE CH	West Virginia Code § 22-6A, the crator has properly served the requi	Operate ired pa	er proof of and certify to the proof to the	his Notice C	ertificat	ion	OOG OFFICE USE
f this article Pursuant to that the Ope *PLEASE CH	have been completed by the applic West Virginia Code § 22-6A, the or erator has properly served the required ECK ALL THAT APPLY	Operation or SE	or has attached proof to the tries with the following: NOTICE NOT REQUIFIESMIC ACTIVITY WAS	his Notice C	ertificat USE NO	ion)	OOG OFFICE USE ONLY
f this article Pursuant to that the Ope *PLEASE CH 1. NO 2. NO	have been completed by the application was virginia Code § 22-6A, the contact has properly served the requirect ALL THAT APPLY TICE OF SEISMIC ACTIVITY TICE OF ENTRY FOR PLAT SUIT	Operation or SE	or has attached proof to the tries with the following: NOTICE NOT REQUIFIESMIC ACTIVITY WAS	his Notice C RED BECA CONDUC EY WAS C RED BECA	ertificat USE NO TED ONDUC	ion)	OOG OFFICE USE ONLY RECEIVED/ NOT REQUIRED

Required Attachments:

■ 5. PUBLIC NOTICE

6. NOTICE OF APPLICATION

4. NOTICE OF PLANNED OPERATION

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-11(b), the Certification of Notice to the person may be made by afficient of personal service, the return receipt card or other postal receipt for certified mailing.

(PLEASE ATTACH)

Wy Department of Er04/2172023

RECEIVED

RECEIVED

RECEIVED

WW-6AC (1/12)

Certification of Notice is hereby given:

1770303570

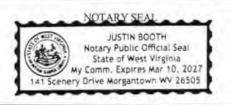
THEREFORE, I Brittany Woody
, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by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

 Well Operator:
 SWN Production Co., LLC
 Address:
 1300 Fort Pierpont Dr., Suite 201

 By:
 Brittany Woody
 Morgantown, WV 26508

 Its:
 Senior Regulatory Analyst
 Facsimile:

 Telephone:
 304-884-1610
 Email:
 Brittany_Woody@swn.com



Subscribed and sworn before me this 28th day of FEBRUARY 2013.

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.

Office Of Oil and Gas
MAR 1 4 2023

WV Department of Environmental Protection

Notary Public

WW-6A (9-13)

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

Not	ice Time Requiren	nent: notice shall be provi	ided no later the	an the filing date of permit application.	
Dat	e of Notice: 313	Date Permit Applica		13	
V	PERMIT FOR AN WELL WORK			PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Del	ivery method pursi	uant to West Virginia Co	ode § 22-6A-10	O(b)	
	PERSONAL SERVICE	☑ REGISTERED MAIL		OD OF DELIVERY THAT REQUIRES A IPT OR SIGNATURE CONFIRMATION	
sedi the soil a descaper more well imperave prove prove prove Cod	ment control plan reconsurface of the tract or and gas leasehold being tribed in the erosion a rator or lessee, in the erosal seams; (4) The work, if the surface woundment or pit as decreased well, spring and water well, spring and water for consumptions water for consumptions water for consumptions of the sheriff requision of this article to the R. § 35-8-5.7 a requirement of the strick of the sheriff requision of this article to the R. § 35-8-5.7 a requirement.	quired by section seven of to which the well is or is pro- ing developed by the propose and sediment control plan is event the tract of land on ve- event the tract of land on ve- event to be used for the pre- secribed in section nine of the or water supply source loc- or water supply source loc- or prior by humans or domes ity is to take place. (c)(1) I tion hold interests in the lan- uited to be maintained purse to the contrary, notice to a li- quires, in part, that the oper-	this article, and to posed to be loc- sed well work, it submitted pursus which the well purface tract or tra- lacement, consti- this article; (5) A cated within one stic animals; and f more than three must be applica- ted and the section of the holder is not ator shall also p	or signature confirmation, copies of the application of the well plat to each of the following persons: (1) ated; (2) The owners of record of the surface tract of the surface tract is to be used for roads or other and to subsection (c), section seven of this article; roposed to be drilled is located [sic] is known to lasts overlying the oil and gas leasehold being deviation, enlargement, alteration, repair, removal of any surface owner or water purveyor who is known thousand five hundred feet of the center of the will (6) The operator of any natural gas storage field be tenants in common or other co-owners of interest may serve the documents required upon the pereight, article one, chapter eleven-a of this code. (3) notice to a landowner, unless the lien holder is the rovide the Well Site Safety Plan ("WSSP") to the as provided in section 15 of this rule.	The owners of record of tor tracts overlying the land disturbance as (3) The coal owner, be underlain by one or eloped by the proposed or abandonment of any on to the applicant to ell pad which is used to within which the ests described in 1500 described in the 2) Notwithstanding any ne landowner, W. Va.
	application Notice	☑ WSSP Notice ☑ E&	S Plan Notice	☑ Well Plat Notice is hereby provided to:	
_	URFACE OWNER			COAL OWNER OR LESSEE	
	ne: William & Shirley Ritch ress: 12263 Proctor Cree		-	Name: C/O Leatherwood Attn: Casey Saunders	
1000	Martinsville, WV	an rupu	-	Address 275 Technology Drive Canonsburg, PA 15317	
Nan	in i			COAL OPERATOR	
	and the fact of the				
,,,,,,				Name: Address:	BECEN-
181	TREACE OWNER	s) (Road and/or Other Dis	sturbance)	Than 430.	Office Of Oil and Gas
		, , , , , , , , , , , , , , , , , , , ,		SURFACE OWNER OF WATER WELL	Gas
Add	ress			AND/OR WATER PURVEYOR(s)	MAR 1 4 2023
				Name: None	IR G
Nan	ie:			Address:	Environmental Project
Add	ress			A 22 to 1 to 1 to 1 to 1 to 1 to 1 to 1 t	Environmental Protection
				OPERATOR OF ANY NATURAL GAS S	
		s) (Impoundments or Pits		Name;	
Nan	ie:	7.7.7.		Address:	
Add	ress				
				*Please attach additional forms if necessary	

API NO. 47-009

OPERATOR WELL NO. WIREM Rinches WTZ 410H

Well Pad Name: William Ritchea WTZ

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting 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

API NO. 47-009

OPERATOR WELL NO, William Ritchea WTZ 410H

Well Pad Name: William Ritchea WTZ

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

API NO. 47- 009

OPERATOR WELL NO, WILLIAM RECISE W72 410H

Well Pad Name: William Ritchea WTZ

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Office RECEIVED Of Oil and Gas

MAK 1 4 2023

WV Department of Environmental Protection WW-6A (8-13)

API NO. 47-009

OPERATOR WELL NO. WIlliam Ritches WTZ 410H

Well Pad Name: William Ritches WTZ

Notice is hereby given by:

Well Operator: SWN Production Co., LLC Telephone: 304-884-1610

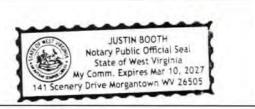
Email: Brittany_Woody@swn.com

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.



Subscribed and sworn before me this 28th day of FEBRUARY 2023.

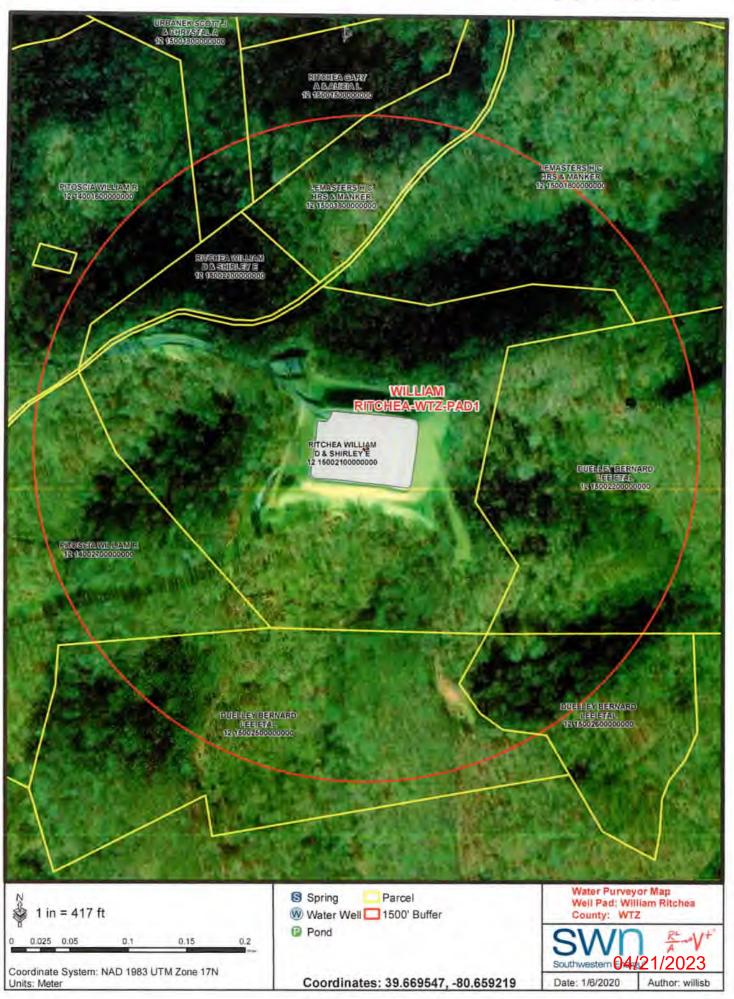
Notary Public

My Commission Expires 3/10/2027

Office Of Oil and Gas

MAR 1 4 7973

WV Department of Environmental Protection



(1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENERGY FOR DEATH AND A STANDARD

Notice Time Res	quirement:	Notice shall be prov	ided at least S	EVEN (7) day	s but no more than	FORTY-FIV	E (45) days prior to
Date of Notice:	5/18/2022	Date of Plan	ned Entry: 5	/25/2022			
Pelly ery anallin	l na oaar i	a West Virvinia Co	atte S. Pzeb Sei	tin			
PERSONAL SERVICE	L.	REGISTERED MAIL			VERY THAT RE		
Pursuant to West on to the surface out no more than beneath such trac owner of mineral and Sediment Co Secretary, which enable the surface	tract to con- reacy live a ct that has files underlying outrol Manual statement slow outler to con-	ode § 22-6A-10(a). If they are main survey, ays prior to such ended a declaration pury such tract in the coal and the statutes an hall include contact decim criples. They have become a such comples.	required puri- type type ne suant to section unty tax record dirules related information, it	mant to mis after ministry-six, and ds. The notice to oil and gas	ca such rate, 1276 ticle six, chapter to shall include a sta exploration and pr	venty-two of the tement that coproduction may be	otice of planned entry 2 of least set on the entry 3 of least set on the entry 3 of the state Erosion 5 obtained from the 5 stary's web site, to
	iii ta						
SURFACE:	OWNER(s)				OWNER OR LES		
Name: William & Sh	irley Ritchea				Leatherwood Attn: Casey		ver i
Address 12263 Pr	octor Creek Road	<u> </u>		Address 2	75 Technology Drive Suite 4 45247 0585 —	: 101	
				AINE	RAL OWNER(s)		
Address:					am & Shirley Ritches		
Name:	· – · · · · · · · ·	·			2263 Proctor Creek Road		
Address				New Martinsvill	e, WV 26155		
				intra-capa i	additional form of an	OKT STORMS	
a plat survey on Starct W County W District: P	the tract of I lest Virginia letzel roctor	ode § 22-0A-10(a), i and as follows:		Approx Latite Public Road N Watersned:	ude & Longitude. Ancess.		
<u> </u>	fleyville	<u> </u>		11.10		MANUSTI MICHES	
may be obtained Obstinator, WV obtained from th	from the Science Secretary	scretary at the WV I 0-976-0450). Copies by visiting	Department of	Environmenta ments or adold	l Protection headq (त्यात्र) intormadon र	uarters, tocated ciated to make	oration and production at 601.57th Street, SE, and drifting may be of Oil and Gas MAR 1.4.2023
Well Operator:		TION COMPANY, LLC		Address:	1300 Fort Pierpont Dr.,		WAZ AS
Telephone:	304-884-1610		_ · ·	- Freekimiler	Morgantown, WV 26500	•	WV Department or Environmental Protection
Limit	Brittany_Woody	г@з₩∩.сот		1 (0.8142.016)	304-884-1690		"Viection
Oil and Cas F	Privare No	tice:					

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 a comply with sautors or regulators requirements including Freedom of Information Act requests Our office will supropriately securely our personal information. If you have any question, which has use or your personal information, please connect DEP's Chief Privacy Officer at

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 Tim Date of No.		provided at least TEN (10) days prior to filing a Date Permit Application Filed	permit application		
Delivery m	ethod pursuant to West Virgini	a Code § 22-6A-16(b)			
☐ HANI	CERTIFIED M	IAIL			
DELIV	ERY RETURN REC	CEIPT REQUESTED			
receipt required drilling a ho of this substitution is and if available.	ested or hand delivery, give the social section as of the date the notice was may be waived in writing by the sable, facsimile number and electrons.	east ten days prior to filing a permit application, surface owner notice of its intent to enter upon to otice given pursuant to subsection (a), section to as provided to the surface owner. Provided, however are owner. The notice, if required, shall inclose mail address of the operator and the operator	he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this ude the name, address, telephone number,		
Notice is I	nereby provided to the SURF on D. & Shirley E. Ritchea	ACE OWNER(s):			
A. A. S	263 Proctor Creek Rd.	Address			
New Martinsvil		Address,			
the surface State: County: District: Quadrangle Watershed:	owner's land for the purpose of d West Virginia Wetzel Proctor Wileyvitle, WV Fish Creek (HUC-10)	(b), notice is hereby given that the undersigned rilling a horizontal well on the tract of land as for the tract of land			
Pursuant to facsimile n related to h	umber and electronic mail addre orizontal drilling may be obtained	ess of the operator and the operator's authorized from the Secretary, at the WV Department of V 25304 (304-926-0450) or by visiting	ress, telephone number, and if available, ed representative Additional information		
Notice is I	ereby given by:				
	TOF: SWN Production Company, LLC	Authorized Representative:	Justin Booth		
Address	1300 Fort Pierpont Road, Suite 201	Address	1300 Fort Pierpont Road, Suite 201		
	Morgantown, WV 26508		Morgantown, WV 26508		
Telephone:	304-884-1675	Telephone:	304-884-1675		
Email:	Justin_Booth@swn.com	Email:	Justin_Booth@swn.com		
Facsimile:		Facsimile:			
		The second secon			

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 deapprivacyofficer@wv.gov

WW-6A5 (1/12)

Operator Well No. WHEN BY AND WITZ AND A

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

Notice Tim Date of No	tice: 02/16/2023	l be provided n Date Permit A	o later than the filin	g date of permi	t application.
Delivery m	ethod pursuant to West Vi	rginia Code §	22-6A-16(c)		
■ CERT	TIFIED MAIL		HAND		
RETU	JRN RECEIPT REQUESTE	D	DELIVERY		
the planned required to drilling of a damages to (d) The notion	operation. The notice required be provided by subsection (by horizontal well, and (3) A the surface affected by oil as	y, give the surfa uired by this su the section ten of proposed surfa and gas operation shall be given to	ace owner whose land absection shall included this article to a sur- ace use and compen- ns to the extent the do to the surface owner	d will be used for ude: (1) A copy face owner who isation agreement lamages are com	ication, an operator shall, by certified mail for the drilling of a horizontal well notice of of this code section, (2) The information se land will be used in conjunction with the nt containing an offer of compensation for appensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the addre	ess listed in the records of the	e sheriff at the t	ime of notice):		
	n D & Shirley E. Ritchea		Name:		
New Martinsvil	263 Proctor Creek Rd.		Addres	SS	
operation o State: County: District Quadrangle:	west Virginia Welzel Proctor	or the purpose o	of drilling a horizont UTM NAD Public Road	al well on the tra Easting: Northing	well operator has developed a planned act of land as follows: 579,213,512 4,391,135,526 Fairview Ridge William Ritchea
Watershed:	Fish Creek (HUC-10)		_		
Pursuant to to be provid horizontal w surface affer information	ded by W. Va. Code § 22- vell; and (3) A proposed surficted by oil and gas operation related to horizontal drillings, located at 601 57th Stree	A-10(b) to a solution as a sace use and connected to the extent g may be obtain	surface owner whos impensation agreement the damages are conned from the Secre-	e land will be usent containing are compensable und tary, at the WV	code section, (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter Additional Department of Environmental Protection or by visiting
			3247		
Well Operat	OF SWN Production Company, LLC		Address	1300 Fort Plemont 6	Road Suile 201
Well Operat Telephone:	OF SWN Production Company, LLC 304-884-1675		Address:	1300 Fort Pierpont F Morgantown, WV 26	
			Address:	1300 For Plerpont F Morgantown, WV 26	

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 demonstrational new new



1 1 4 4 5 5 7 6

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

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

February 22, 2023

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

Subject: DOH Permit for the William Ritchea Pad, Wetzel County
William Ritchea WTZ 410H 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

Day K. Clayton

Cc:

Brittany Woody Southwestern Energy CH, OM, D-6

File

	Potest Use	Clerk(a) Name	CAS No. +5
Al-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-211
		Cinnamaldehyde	104-55 2
		Butyl cellosolve	111-76 2
		Formic acid	64-18 6
		Folyether	Proprietary
AS ONE free World of Social		Acetophenone, thloures, formaldehyde polymer	68527-49 1
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
Bactron K-139 (Champion Technologies)	Blocide	Glutareldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol	68424-85-1
Bactron K-219 (Champion Technologies)	Biocide	Methano)	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
arboNRT	Tracer	Ceramic Proppant	66402-68-4
C6486A (Naico Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
22,500 (0.002,000)		Ethylene Glycol	107-21-1
C6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
cono-Ci200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thloures polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
copol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citric Acid	77-92-9
Sheater se hi	edal ve el el el	Water	7732-18-5
OP-S1176-15 (Halliburton)	Friction Reducer	Polyacylate Hydrotreated light netroleum distillate	Proprietary
OUTT DROOM I DO COUNTY IN THE COUNTY	Patietica Workship	Hydrotreated light petroleum distillate	64742-47-8
OJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol Alcohols, C12-16, Exoxylated propoxylated	107-21-1 68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
OJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
R-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
N-70 (Halliourton)	Friction Reducer	Inorganic Salt	Proprietary
YPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
Tribut 1-220 (eminipoli recinione great)	State Illinoisoi	Nonylphenol Ethoxylate	Proprietary
Al-150E (Halliburton)	Corresion Inhibitor	No hazardous substance	N/A
CL (SWN Well Services)	Hydrocholic Acid	Hydrochloric Acid	7647-01-0
	THE STATE OF THE S	Water	7732-18-5
P-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
	2124 0000000	Ammonium Chloride	12125-02-9
PTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
lexslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
exslick 953	Friction Reducer	Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
		Burnella State S	
exslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
exslick 957	Friction Reducer	Ammonium Chloride	12125-02-9
exslick 957	Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide	12125-02-9 93-83-4
exslick 957	Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated	12125-02-9 93-83-4 68551-12-2
		Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water	12125-02-9 93-83-4 68551-12-2 7732-15-5
	Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide	12125-02-9 93-83-4 68551-12-2 7732-15-5
		Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light	12125-02-9 93-83-4 68551-12-2 7732-15-5
		Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate	12125-02-9 93-83-4 68551-12-2 7732-15-5
exslick V996	no data available	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant	12125-02-9 93-83-4 68551-12-2 7732-15-5
exslick V996	no data available	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8
exslick V996 /FRA-2000 (U.S. Well Services)	no data available	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum)	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8
extlick V996 FRA-2000 (U.S. Well Services) exald 655 NM	no data available Anionic Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 64742-47-8 9003-06-9
exslick V996 /FRA-2000 (U.S. Well Services) exald 655 NM	no data available Anionic Friction Reducer Scale Inhibitor	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid)	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8
extlick V996 FRA-2000 (U.S. Well Services) exald 655 NM	no data available Anionic Friction Reducer Scale Inhibitor	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI)	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9
extilick V996 FRA-2000 (U.S. Well Services) exaid 655 NM exslick 922	no data available Anionic Friction Reducer Scale Inhibitor no data available	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4
exslick V996 /FRA-2000 (U.S. Well Services) lexald 655 NM lexslick 922	no data available Anionic Friction Reducer Scale Inhibitor	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI)	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9
exslick V996 /FRA-2000 (U.S. Well Services) lexald 655 NM lexslick 922	no data available Anionic Friction Reducer Scale Inhibitor no data available	Ammonium Chloride Oleic Acid Diethnolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8
lexslick 957 lexslick V996 VFRA-2000 (U.S. Well Services) lexslick 922 olcide 4Frac olcide PSSOA	no data available Anionic Friction Reducer Scale Inhibitor no data available	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1
exslick V996 /FRA-2000 (U.S. Well Services) exaid 655 NM exslick 922 olcide 4Frac	no data available Anionic Friction Reducer Scale inhibitor no data available Mixture	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5
exslick V996 /FRA-2000 (U.S. Well Services) exaid 655 NM exslick 922 olcide 4Frac	no data available Anionic Friction Reducer Scale inhibitor no data available Mixture	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benryl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5
exslick V996 /FRA-2000 (U.S. Well Services) exald 655 NM exslick 922 olcide 4Frac	no data available Anionic Friction Reducer Scale inhibitor no data available Mixture	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NHA)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Cuaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8
exslick V996 FRA-2000 (U.S. Well Services) exald 655 NM exslick 922 ploide 4Frac	no data available Anionic Friction Reducer Scale Inhibitor no data available Mixture Biocidal product	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8
exslick V996 /FRA-2000 (U.S. Well Services) exaid 655 NM exslick 922 olcide 4Frac	no data available Anionic Friction Reducer Scale Inhibitor no data available Mixture Biocidal product	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8
exslick V996 FRA-2000 (U.S. Well Services) exald 655 NM exslick 922 ploide 4Frac	no data available Anionic Friction Reducer Scale Inhibitor no data available Mixture Biocidal product	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8 397256-50-7 64742-47-8 Proprietary
exslick V996 FRA-2000 (U.S. Wall Services) exaid 655 NM exslick 922 olcide 4Frac olcide PSSOA	no data available Anionic Friction Reducer Scale inhibitor no data available Mixture Biocidal product Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Cuaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol Poly (oxy-1.2-ethanediyl) alpha-tridecyl-omega-hydroxy-, branched	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8 397256-50-7 64-17-5 7576742-47-8 Proprietary
exslick V996 FRA-2000 (U.S. Wall Services) exaid 655 NM exslick 922 olcide 4Frac olcide PSSOA	no data available Anionic Friction Reducer Scale inhibitor no data available Mixture Biocidal product Friction Reducer	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenola acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Cluaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol Poly (oxy-1.2-ethanediyl) siphatridecylomegahydroxy-, branched Methanol	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8 397256-50-7 64742-47-8 Proprietary 69011-36-5 67-56-1
exslick V996 FRA-2000 (U.S. Well Services) exaid 655 NM exslick 922 olcide 4Frac olcide PSSOA 0-2950 gend LD-7750W C MX 8-4743	no data available Anionic Friction Reducer Scale Inhibitor no data available Mixture Biocidal product Friction Reducer Scale Control	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol Poly (oxy-1_2-ethanedlyl) alphatridecyi-omega-hydroxy-, branched Methanol Phosphonic Acid Salt	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-05 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8 397256-50-7 64742-47-8 Proprietary
exslick V996 FRA-2000 (U.S. Well Services) exaid 655 NM exslick 922 olcide 4Frac olcide PSSOA 0-2950	no data available Anionic Friction Reducer Scale Inhibitor no data available Mixture Biocidal product Friction Reducer Scale Control Specialty Product	Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol Poly (oxy-1.2-ethanediyl) siphatridecyl-omega-hydroxy-, branched Methanol Phosphonic Acid Salt Sodium Nitrate	12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8 397256-50-7 64742-47-8 Proprietary 69011-36-5 67-56-1 Proprietary 7631-99-4

As of 9/8/2022

OPERATOR: SWN Production Co., LLC WELL NO; William Ritchea WTZ 410H

PAD NAME: William Ritchea WTZ

REVIEWED BY: SIGNATURE: BUHANY WORLD

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions * Pad Buil	+7/33/13
At Least 100 Feet from Pad and LOD (including any E&S Contro Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	of Feature) to any
DEP Waiver and Permit Conditions	
At Least 300 Feet from Pad and LOD (including any E&S Contro Naturally Producing Trout Stream; OR	ol Feature) to any
DEP Waiver and Permit Conditions	
At Least 1000 Feet from Pad and LOD (including any E&S Contro Groundwater Intake or Public Water Supply; OR	rol Feature) to any
DEP Waiver and Permit Conditions	
At Least 250 Feet from an Existing Water Well or Developed Spr Drilled; OR	ring to Well Being
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	r 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 s of the Pad; OR	
Surface Owner Waiver and Recorded with County Clerk,	OR Office Of Oil and Gas
DEP Variance and Permit Conditions	MAR 1 4 7023
	WV Department of Environmental Protection

04/21/2023

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

APRIL 2018

EP2.2 EVACUATION ROUTE, PREVALING WIND
AS3.1 ASBULT
AS3.2 ASBULT
AS3.2 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 ASBULT
AS3.4 SHEET INDEX
1St THE SHEET
P22.1 EVACATION ROUTE/ PREVALING WIND
E22.2 EVACATION ROUTE/ PREVALING WIND
AS3.1 ASBULT DARMEN MRD6.3 DETAILS MRD6.4 DETAILS

DATE			
REVISION			

NO

100

RADE TO SUMMATE STANDING WATER

SED & MUCCH (BERMS)

PALIN HAMP

API:47-103-03130H

(NADB3) LAT: 39.669560 LONG: 80.659179

CENTER OF PAD

EPAIR BERNE

(NADB3) LAT 39,669598 LONG: 80,659338 MILIAN RITCHEA 3H API:47-103-03129H

(NADB3) LAT: 39.669954 LONG: 80.659848

1000

0

1000

=1000

AT RITCHEA PAD

ACCESS ROAD DATA (DRILLING)

APL47-103-03141H

(NADB3) LAT: 39.670678 LONG: 80.663452

LONG 80.658999

(NADB3)

LOCATION

-PROJECT

UTM, NADBS DATUM, ZONE 17, US FT

MEGA

SING.

ŧ

TAMON

LONG: 80.659438

GATHERING AREA

(NAD83)

ă 2 ¥ 5

ENGINEERING ESTIMATE OF QUANTITIES

WELL SITE PAD DATA (DRILLING)

NSTALL STANDARD SUMP

ONE FOR PAD AREA

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

EXISTING WELLS.
WILLIAM RITCHEA 1H
API:47-103-03128H

3

LOCATION

0

R

-ACCESS ROAD ENTRANCE

CRID NORTH LINE, ZONE 17,

TH. ZU

LAT. 39.669602 ONC: 80.659388

(NAD83)

(NADB3) LAT: 39.670804 LONG: 80.663337 COORDINATES:

00





on Company Tal

ACCEPTED AS BUILT 4/17/2023

1

NOCAHONTH

Chase 1000

FAMILIE

(NOON) CABILL

04/21/2023

WVDEP 000

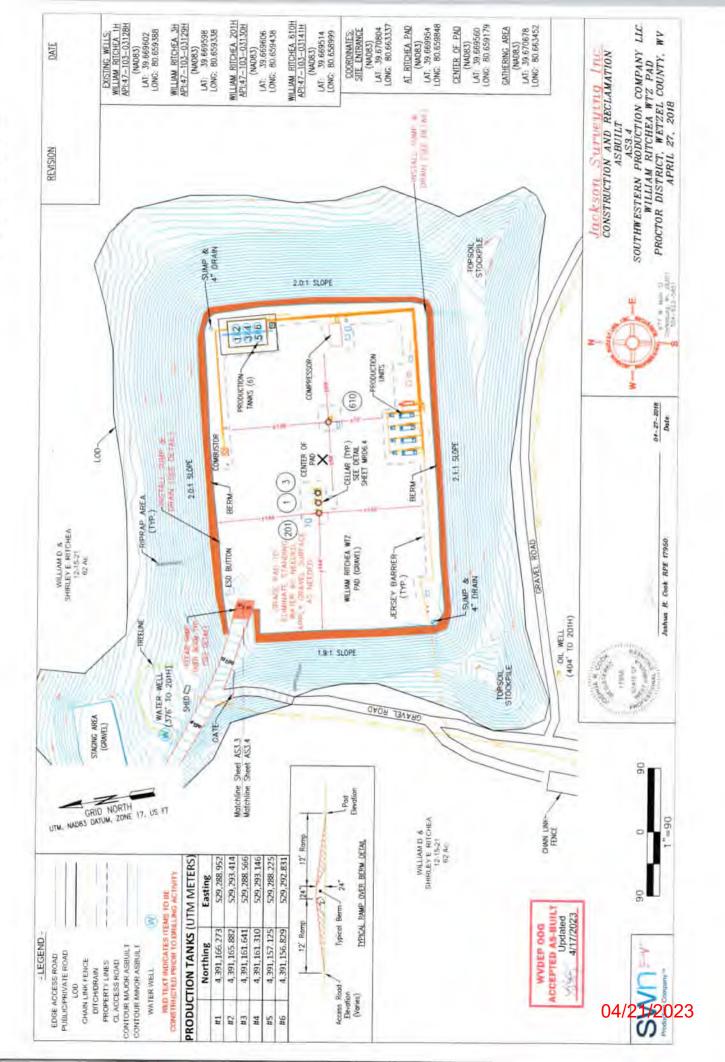
TON	TOW	in in	TON	11	T	EA	25		NOT	,	5	5	Producti	35
40	- 60	+	-40	60	LAMATION)	9	9		180		200	3,600	1,100	15,600
2"-3" AGGREGATE (POTHOLES)	TRUSHER RUM	SRADE ROAD & STACING AREA	JONE FOR STAGING AREA	LS" HÜPE CÜLVERT FOR STAĞING ANCA	WELL SITE PAD DATA (RECLAMATION)	IEMOVE SUMP	BREACH BERM	DISCHARGE CHANNELS)	RIPRAP	ON	EROSION CONTROL FABRIC	SPELAD TOPSOIL	JEINFORCED SILT FENCE	SEC & MULCH

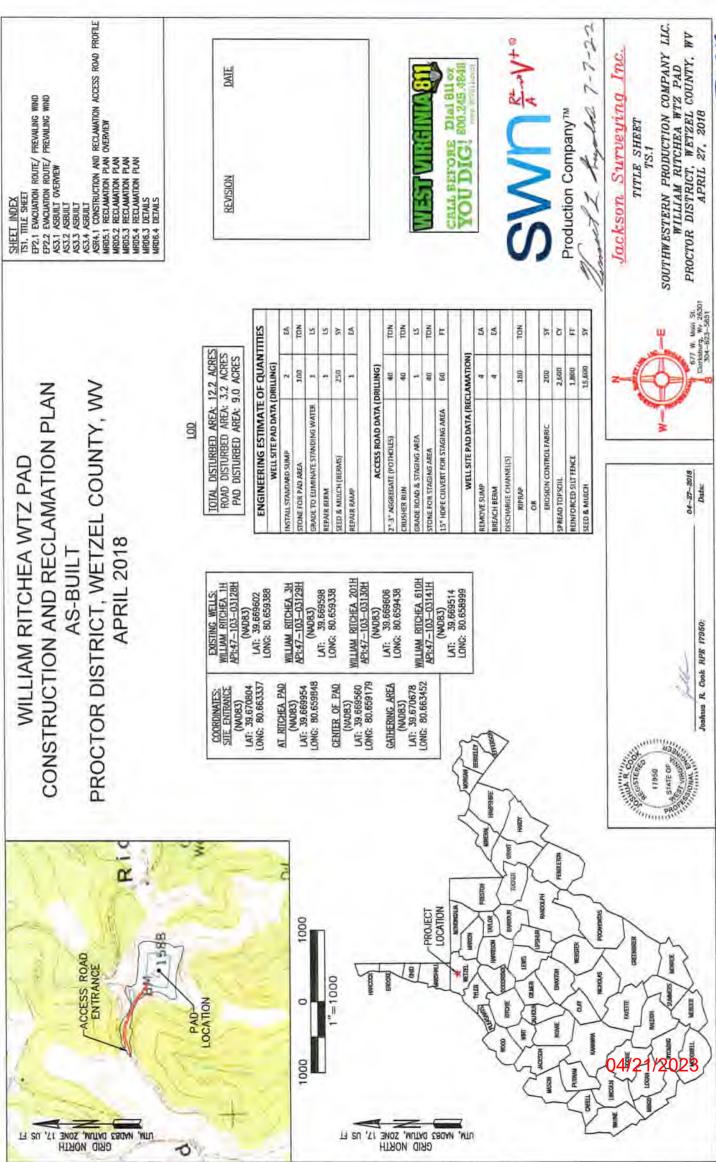
Date

Joshua R. Cook RPE 17950

Surveying TITLE SHEET Jackson

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





3/9/23

