

west virginia department of environmental protection

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

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

Friday, September 2, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for YOCUM MSH 206H

47-051-02464-00-00

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.

Operator's Well Number:

YOCUM MSH 2061

Farm Name:

YOCUM, JOSEPH LEE & MICH

U.S. WELL NUMBER: 47-051-02464-00-00

Horizontal 6A New Drill

Date Issued: 9/2/2022

PERMIT CONDITIONS

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

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers
 (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed
 activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 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.
- 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.
- During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number:	

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, consistency 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.

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

1) Well Operat	or: SWN Pro	duction Co., LLC	494512924	051-Marshal 07-L	iber 438-Littleton
			Operator ID	County Dist	
2) Operator's V	Well Number:	ocum MSH 206F	Well Pa	ad Name: Yocum MS	H
3) Farm Name/	Surface Owner	Joseph Lee & Michael [O. Yocum Public Ro	oad Access: Amos Ho	llow Road
4) Elevation, cu	urrent ground:	1053' E	levation, proposed	d post-construction: 1	053'
5) Well Type	(a) Gas x	Oil		derground Storage	
	Other				
	The second second	nallow x	Deep	1	
6) Existing Pad		orizontal X		Mak 6/161	12020
	and the second second	A	inated Thiolmoss	and Expected Pressure	
Target Formation-	Marcellus, Down-Dip w	ell to the South, Target Top	TVD- 7256', Target Base T	And Expected Pressure VD- 7299', Anticipated Thickness	C(S): - 43', Associated Pressure- 4744
8) Proposed To	tal Vertical Der	oth: 7282'			
9) Formation at			3		
10) Proposed T	otal Measured l	Depth: 22121'			
11) Proposed H	orizontal Leg L	ength: 14424.61	P		
12) Approximat	te Fresh Water	Strata Depths:	437'		· /
13) Method to I	Determine Fresh	Water Depths:	Salinity profile calcu	lations from logs on You	um MSH 1H 47-051-02133
14) Approximat	te Saltwater De	pths: 986'- Salinit	y Profile calculatio	ns from logs on Yocur	m MSH 1H 47-051-02133
15) Approximat	e Coal Seam D	epths: 881'			
16) Approximat	e Depth to Pos	sible Void (coal mi	ne, karst, other):	None that we are aw	are of.
		on contain coal sear o an active mine?	ns Yes	No X	RECEIVED Office of Oil and Gas
(a) If Yes, pro-	vide Mine Info:	Name:			JUL 2 0 2022
		Depth:			WV Department of
		Seam:			Environmental Protection
		Owner:			

OPERATOR WELL NO. Yocum MSH 206H
Well Pad Name: Yocum MSH

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	H-40	48#	530'	530'	512 sx/CTS
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J/K-55	36/40#	2430'	2430'	851 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	22121'	22121' /	Tail 4041sx/ 100' Inside Intermediate
Tubing							
Liners							

Mgk 6/16/2008

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

PACKERS

Kind:	RECEIVED Office of Oil and Gas
Sizes:	JUL 2 0 2022
Depths Set:	WV Department of Environmental Protection

W۱	W-	6B
(10)/1	.4)

API NO. 47- 009 OPERATOR WELL NO. Yocum MSH 206H
Well Pad Name: Yocum MSH

19) Describe p	roposed w	ell work.	. including	the drillin	g and p	lugging	back of a	ny 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): 27.93
- 22) Area to be disturbed for well pad only, less access road (acres): 16.97
- 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.

Office of Oil and Gas

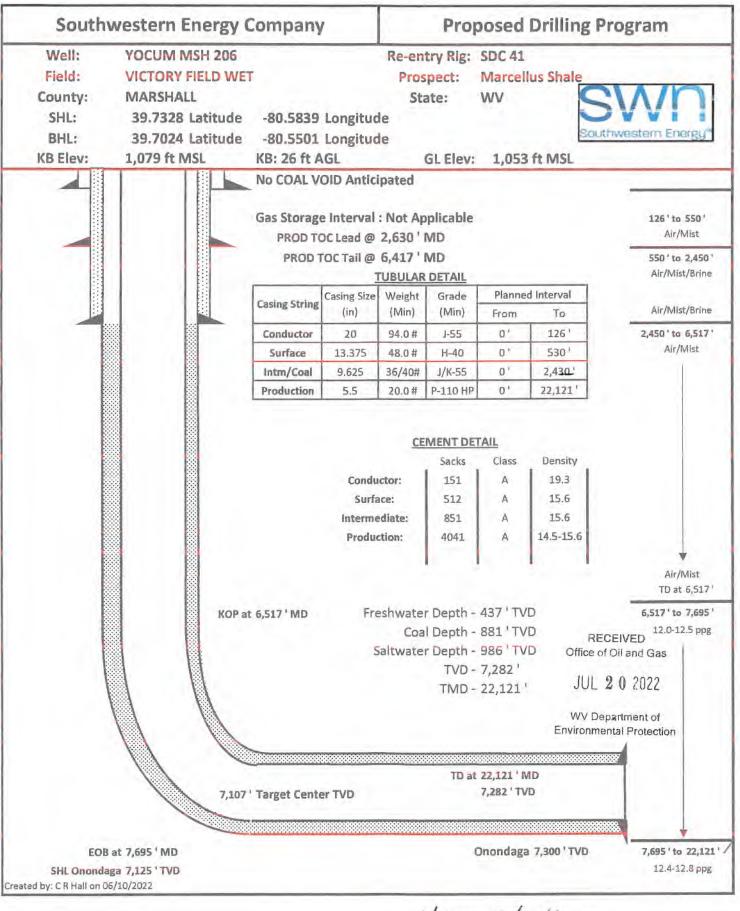
JUL 2 0 2022

^{*}Note: Attach additional sheets as needed.

			CEMENT	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	> <	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	><	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D047	FP 28L	><	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	><	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	><	><	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETARY
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	5001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
		> <	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	> <	SS-11W	CJ880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	X	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	> <	> <	CJX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
		\supset	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATIC AMIDE POLYMER	PROPRIETARY
PRODUCTION	D255	\supset	X	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
			CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
		FL-66	CJ501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	X	VISCOSIFIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1

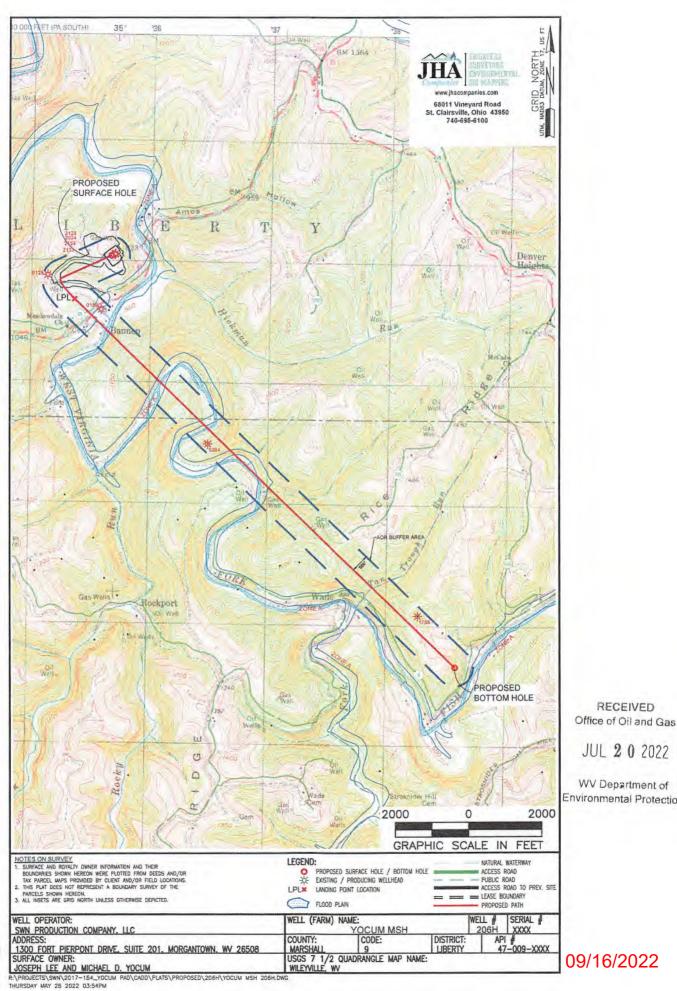
RECEIVED
Office of Oil and Gas

JUL 2 0 2022



Yocum MSH 206H AOR

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
51-02125	SWN PRODUCTION COMPANY	ACTIVE	39.732972			Marcellus	Big Injun, Maxton Sand
51-02024	SWN PRODUCTION COMPANY	ACTIVE	39.732954			Marcellus	Big Injun, Maxton Sand
51-02124	SWN PRODUCTION COMPANY	ACTIVE	39.732936			Marcellus	
51-02133	SWN PRODUCTION COMPANY	ACTIVE	39.732919			Marcellus	Big Injun, Maxton Sand
51-00519	UNKNOWN	ABANDONED	39.738913				Big Injun, Maxton Sand
103-00284	UNKNOWN	ABANDONED			2866	Salt Sand	Big Dunkard, Little Dunkard
103-00284	Chevron Appalachia LLC		39.188884				
103-01/33	Chevron Appaiachia LLC	ACTIVE	NOT AVALAIBLE	NOT AVALAIBLE	14847	Marcellus	Big Injun, Maxton Sand
			<u> </u>				
					_		
				s	<u>i</u>		Y
				ED and Gas 2022	ote		
				le 2 rel	Ğ.		
				ECEIVI of Dil a	nta		
				of C	mem		
				Fice I			,
				 	Env		
					Ū		
······							



JUL 2 0 2022

RECEIVED

WV Department of Environmental Protection

09/16/2022

API Number 47 - 051	-
Operator's Well No.	Vocum MSH 206H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC	OP Code 494512924
Watershed (HUC 10) Upper Ohio South	Quadrangle Littleton
Do you anticipate using more than 5,000 bbls of water to differ with the used? Yes No V	
Will a synthetic liner be used in the pit? Yes	No ✓ If so, what ml.?
Proposed Disposal Method For Treated Pit Waste	
Land Application Underground Injection (UIC F Reuse (at API Number At the ne Off Site Disposal (Supply form Other (Explain recovery and so	n WW-9 for disposal location)
Will closed loop system be used? If so, describe: Yes-Se	ee Attachment 3A
Drilling medium anticipated for this well (vertical and hor	rizontal)? Air, freshwater, oil based, etc. Air drill to KOP, fluid drill with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum, et	tc. Synthetic Oil Base
Additives to be used in drilling medium? Attachment 3B	
Drill cuttings disposal method? Leave in pit, landfill, rem	oved offsite, etc. landfill
-If left in pit and plan to solidify what medium w	
Apex Sanitary Landtill Ub-U8438, Brooke Co Permittee shall provide written notice to the Office of Oil	o SVVF-1013, and Gas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the We provisions of the permit are enforceable by law. Violatic law or regulation can lead to enforcement action. 1 certify under penalty of law that 1 have personapplication form and all attachments thereto and that,	and conditions of the GENERAL WATER POLLUTION PERMIT issued est Virginia Department of Environmental Protection. I understand that the ons of any term or condition of the general permit and/or other applicable onally examined and am familiar with the information submitted on this based on my inquiry of those individuals immediately responsible for in is true, accurate, and complete. I am aware that there are submitted on the ossibility of fine or imprisonment.
Company Official Signature	JUL 2 0 2022
Company Official (Typed Name) Brittany Woody	₩₩ Department of
Company Official Title Senior Regulatory Analyst	Environmental Protection
Subscribed and sworn before me this 1st day	of June , 2022 REID CROFT Notary Public Official Second State of West Virginia
My commission expires 8/21/2024	My Comm. Expires Aug 21, 47 Sparrow Lane Morgantown WY 26

Proposed Revegetation Treatment: Acres Disturbed	27.93	Prevegetation pH	Ι
Lime Tons/acre or to co	orrect to pH 16.7		
Fertilizer type 10-20-20			
Fertilizer amount 600/500	lbs/acre		
Mulch_ Hay/Straw	Tons/acre		
	Seed Mixtures		
Temporary		Perma	nent
Seed Type Ibs/acre Attachment 3C		Seed Type	lbs/acre
Attach: Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied,	land application (unles	s engineered plans includes x W x D) of the pit, and	ling this info have been dimensions (L x W), and are
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, creage, of the land application area. Photocopied section of involved 7.5' topographic should be applied to the provided section of involved 7.5' topographic should be applied.	, include dimensions (L	x W x D) of the pit, and	dimensions (L x W), and are
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, creage, of the land application area.	, include dimensions (L	x W x D) of the pit, and	ling this info have been dimensions (L x W), and are
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, creage, of the land application area. Photocopied section of involved 7.5' topographic should be land approved by:	, include dimensions (L	x W x D) of the pit, and	dimensions (L x W), and are
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, creage, of the land application area. Photocopied section of involved 7.5' topographic should be land approved by:	, include dimensions (L	x W x D) of the pit, and	dimensions (L x W), and are
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, creage, of the land application area. Photocopied section of involved 7.5' topographic should be land approved by:	, include dimensions (L	x W x D) of the pit, and	dimensions (L x W), and are
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, creage, of the land application area. Photocopied section of involved 7.5' topographic should be land approved by:	, include dimensions (L	x W x D) of the pit, and	RECEIV Office of Oil a
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, creage, of the land application area. Photocopied section of involved 7.5' topographic should be land approved by:	, include dimensions (L	x W x D) of the pit, and	RECEIV Office of Oil a JUL 2 0 WV Departm Environmental F

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)

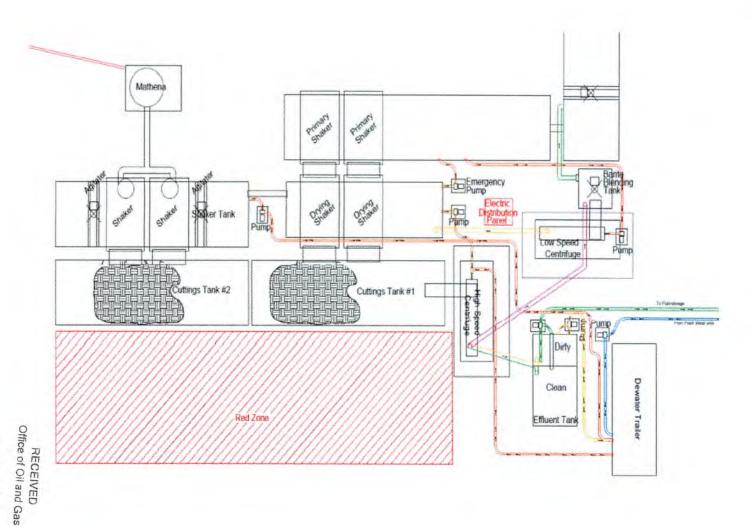
When drilling is converted to liquids drilling, the shale gas separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached 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

JUL **2 0** 2022

Solids Control Layout





Attachment 3B

Drilling Mediums

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

RECEIVED
Office of Oil and Gas

JUL 2 0 2022

WV Department of Environmental Protection

Friction Reducers



WVD Seeding Specification



To Order Seed contact Lyndsi Eddy Flippo office 570-996-4271 cell 501-269-5451 lyndsi_eddy@swn.com

(please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES	
Seed Mixture: ROW Mix	SWN Supplied
Orchardgrass	40%
Timothy	15%

Annual Ryegrass 15% **Brown Top Millet** 5% Red Top 5% Medium Red Clover 5% All legumes are innoculated at 5x normal White Clover 5% rate Birdsfoot Trefoil 5%

> Apply @ 200lbs per acre Apply @ 100lbs per acre Oct. 15th-April 15th PLUS April 16th- Oct. 14th 50lbs per acre of Winter Wheat

5%

SOIL AMENDMENTS

Rough Bluegrass

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

Seeding Calculation Information:

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

Synopsis:

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

Special Considerations:

Landowner Special Considerations including CREP program participants require guidance that is not given here. Discuss these requirements with SWN supervision at the guidance that is not given here. Discuss these requirements with SWN supervision at the guidance that is not given here. Discuss these requirements with SWN supervision at the guidance that is not given here.

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

Seed Mixture: Wetland Mix	SWN Supplied
VA Wild Ryegrass	20%
Annual Ryegrass	20%
Fowl Bluegrass	20%
Cosmos 'Sensation'	10%
Redtop	5%
Golden Tickseed	5%
Maryland Senna	5%
Showy Tickseed	5%
Fox Sedge	2.5%
Soft Rush	2.5%
Woolgrass	2.5%
Swamp Verbena	2.5%
Apply @ 25lbs per acre	Apply @ 50lbs per acre

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

April 16th- Oct. 14th

RECEIVED
Office of Oil and Gas

Oct. 15th- April 15th

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

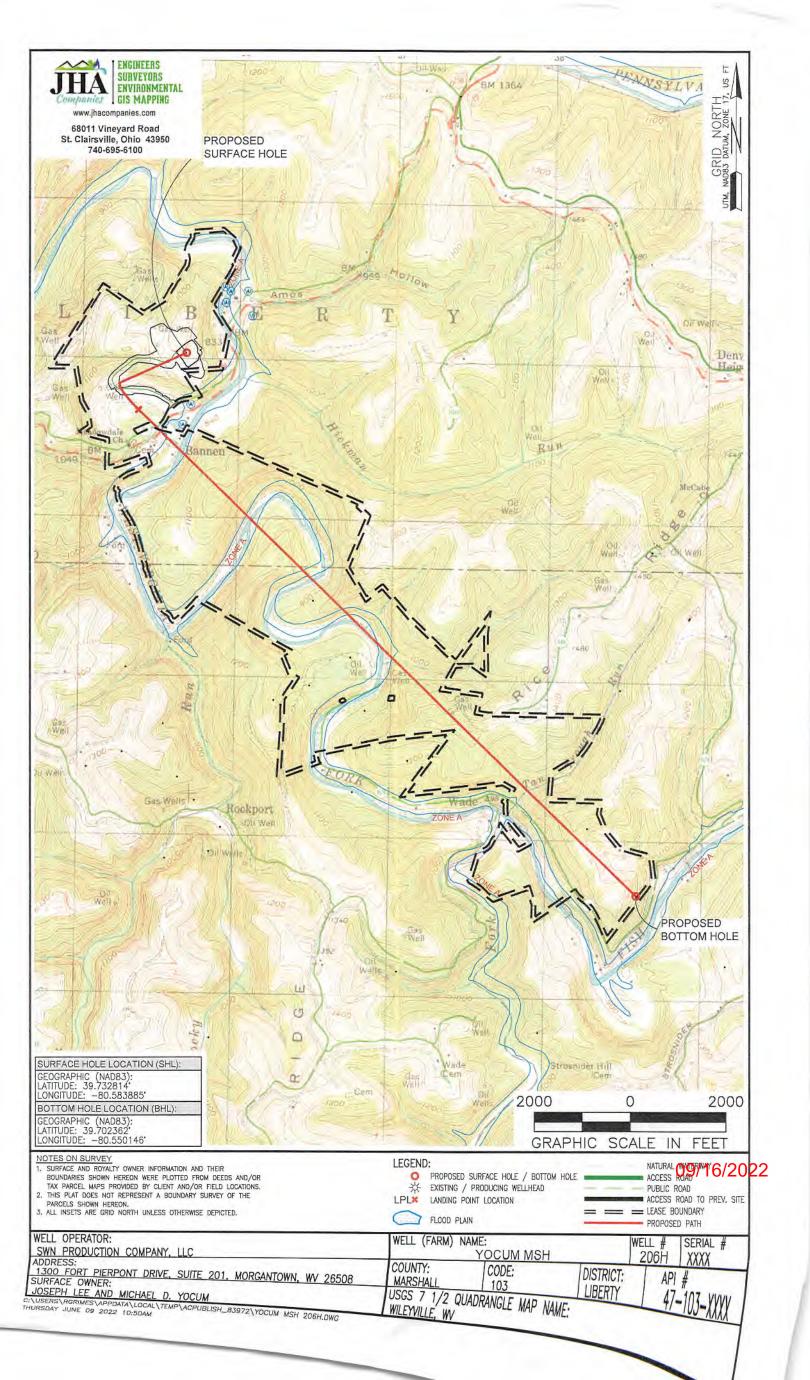


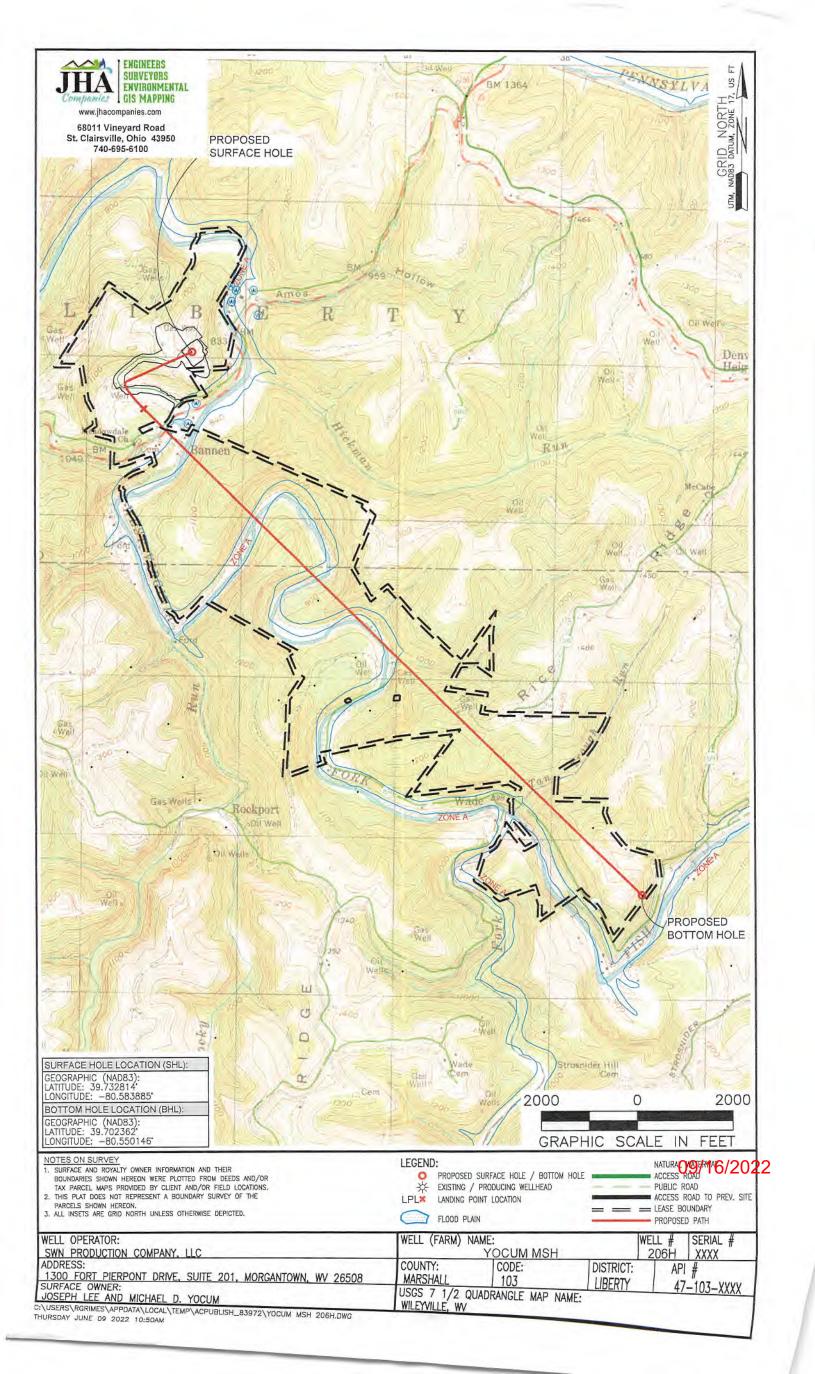
SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

API NO. 47-XXX-XXXXX
WELL NAME: Yocum MSH 206H
Littleton QUAD
Liberty DISTRICT
Ohio COUNTY, WEST VIRGINIA

Submitted by:		
Name: Brittany Woody Suttanuy Woody	Date: <u>5/31/2022</u>	
Title: Senior Regulatory Analyst	SWN Production Co.	, LLC
Approved by: Name: Maynette Title: Turgette	Date: 6/16/2002	RECEIVED Office of Oil and Gas
Approved by:	7	JUL 2 0 2022 WV Department of Environmental Protection
Name:	Date:	
Title:		

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL







TRACT	WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS SURFACE OWNER (5) / ROYALTY OWNER (R)	TAYDADGE
1		TAX PARCE
-	YOCUM JOSEPH LEE & MICHAEL D	7-26-9
TRACT	SURFACE OWNER	TAX PARCE
2	YOCUM JOSEPH LEE & MICHAEL D	7-27-4
3	YOCUM JOSEPH LEE & MICHAEL D	7-27-5
4	OCHSENBEIN RICHARD L	7-27-9
5	BURGE DELORES E ET AL	7-27-10
5	VELLEKOOP PETER B ET UX - TOD	7-27-13
7	WV STATE COMMERCE BUREAU OF	1-2-6
8	SEIDLER EARL DALE & NETTIE	1-2-6.1
9	SEIDLER E DALE & NETTIE L	
-	THE RESERVE OF THE PROPERTY OF THE PERSON OF	1-2-6.2
10	SEIDLER E DALE & NETTIE L	1-5-10
11	BLACKROCK ENTERPRISES LLC	1-6-1
12	UNKNOWN	UNKNOW
13	WILLIAMS JOHN E HRS	1-6-4
14	MCGUFFIE ARCH	1-6-5
15	MILLIKEN KEVIN R ETAL	1-6-6
16	CONSOLIDATED GAS TRANS CORP	1000
100	The state of the s	3-1-7
17	S&R INVESTMENTS	3-1-23
18	PHILLIPS JR CHARLES R	3-1-22
19	CONSOLIDATED GAS TRANSMISSION	3-1-29
	ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER	TAX PARCE
A	STIPETICH SUSAN F & FRANK R	7-27-4.2
В	YOCUM MICHAEL DAVID ET AL	7-27-4.1
C	HIGH PHILIP D	7-27-8
D	VELLEKOOP PETER B ET UX - TOD	7-27-11
E	W VA WILDLIFE RESOURCES	7-24-1
F	WILLIAMS KATHERINE E TRUST	1-3-1
G	ABEREGG D W EST & ABEREGG WILLIAM D ETAL L/E ABEREGG DA	1-3-2
Н	WILLIAMS LONNIE L	1-3-7
1	CONSOLIDATED GAS TRANSMISSION	1-3-5
1	WILLIAMS JOHN EDWARD	1-3-8
К	CBC HOLDINGS LLC	3-1-8.1
L	MILLIKEN KEVIN R ETAL	3-1-8
M	CONSOLIDATED GAS TRANS CORP	3-1-21
N	CONSOLIDATED GAS TRANS CORP	3-1-20
0	CONSOLIDATED GAS TRANSMISSION	3-1-31
Р	CONSOLIDATED GAS TRANSMISSION	3-1-32
Q	CONSOLIDATED GAS TRANS CORP	3-1-30
R	CONSOLIDATED GAS TRANS CORP	3-1-28
5	CONSOLIDATED GAS TRANS CORP	3-1-27
T	CONSOLIDATED GAS TRANS CORP	3-1-26
U	S&R INVESTMENTS	3-1-25
V	S&R INVESTMENTS	1-6-11
W	SHOWALTER THOMAS HRS	3-1-24
X	BLAKE GAY KAREN & JOSEPH F	1-6-7
Υ	S&R INVESTMENTS	1-6-10
Z	BERRY LAWRENCE C & DOROTHY J	1-6-8
AA	SEIDLER E DALE & NETTIE L	1-6-3
AB	SEIDLER E DALE & NETTIE L	1-5-11
AC	CONSOLIDATED GAS TRANSMISSION	1-5-18
AD	CONSOLIDATED GAS TRANSMISSION	1-5-17.1
AE	BROWN NEIL A	1-5-9
AF	WV STATE OF COMM BUREAU OF	1-5-9.1
AG	WV STATE COMMERCE BUREAU OF	1-2-12
AH	MCINTIRE STEPHEN ROSS	1-2-5
Al	FERDA BRIAN T ET UX	7-27-15
AJ	FITZSIMMONS SCOTT M ET AL	7-27-14
AK	FERDA BRIAN T ET UX	7-27-16
AL	FERDA BRIAN T ET UX	7-27-16.1
AM	GEHO ANNIE L EST	7-27-21
AN	SCHANCK JOSEPH L	7-27-18
AO	HORNER DELORSE A	7-26-10
AP	CONSOLIDATED GAS SUPPLY CORP	7-26-8
AQ	GEDEON DANIEL D ET UX	7-26-6
AR	VELLEKOOP PETER B ET UX - TOD	7-26-6.1
AS	VELLEKOOP PETER B ET UX - TOD	7-26-6.2
TA	MEADOWDALE UNITED METH CH CEM	7-27-6
AU	SEIDLER E DALE & NETTIE L	1-5-10.1
AV	- Long - Control	UNKNOW

09/16/2022

REVISIONS:	COMPANY:	SWN Production Company, LLC Production Compa		SWN AT V+® Production Company™
	OPERATOR'S WELL #: 47-05	YOCUM 51-02464 2061	111111111111111111111111111111111111111	DATE: 06-09-2022 API NO: 47-051-XXXXX DRAWN BY:R. GRIMES
	DISTRICT: LIBERTY	COUNTY: MARSHALL	STATE: WV	SCALE: N/A DRAWING NO:2017-154 WELL LOCATION PLAT

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

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

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

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

See Exhibit

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

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

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

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

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

Well Operator:

By:

Its:

SWN Production Company, LLC

Staff Landman

a# Ta	x Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Lea
7-26-9	***************************************	Para A	The second secon		- A444	0.00%
p/o 7-26-9		in, Ira M. Franklin & Emma Franklin, husband and wife, John A.		13.75%	186/284	*
(86.103 ac)		klin, husband and wife, Mary S. Franklin, widow, M.J. Brooks & sband, Edith White & J.F. White, wife and husband, and Laura				
	widow					
	L.F. Burley	teirs	The Manufacturers Light and Heat Company		2/269	
	The Manufa	acturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
	Columbia G	as Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		as Transmission Corporation	Chesapeake Appalachia, LLC		662/322	
		e Appalachia, LLC	SWN Production Company, LLC		36/422	,
p/o 7-26-9	I D. Franklin	and Bessie J. Franklin, his wife	The Manufacturers links and these Commen	42.500	***	
(30.7 ac)		acturers Light and Heat Company	The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation	12.50%	209/168 422/204	
			·			
		as Transmission Corporation as Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Appalachia, LLC	Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc.		662/322 675/279	
			•			
		· Appalachia, LLC Onshore Properties Inc.	SWN Production Company, LLC		33/110	
		J. J	SWN Exchange Titleholder LLC	•	33/424	
7-27-4				12.50%	209/168	0.00%
7-27-4		I.D. Franklin and Bessie J. Franklin, husband and wife	The Manufacturers Light and Heat Company	12.30%	203/108	0.00%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, LLC		662/322	
		Chesapeake Appalachia, LLC	Statoilhydro USA Onshore Properties Inc.		675/279	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder LLC		33/424	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		36/422	
7-27-5		ID Comblin and Decis 1 Comblin Acceptant	The Manufacturers Links and U.S.	6 359/	242/440	0.00%
		I.D. Franklin and Bessie J. Franklin, husband and wife The Manufacturers Light and Heat Company	The Manufacturers Light and Heat Company	6.25%	342/448 220/353	
		The Manufacturers Light and Heat Company	Union Gasoline & Oil Corporation		2/136	
		Union Gasoline & Oil Corporation	The Prestion Oil Company		2/235	
		The Prestion Oil Company	The Manufacturers Light and Heat Company		4443	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, LLC		662/322	
		Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc.		675/279	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder LLC		33/424	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		36/422	
7-27-9		Josephine Faust, et al	Manufacturers Light and Heat Company	12.50%	375/545	0.00%
7-27-9		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation	12.50%	422/204	0.00%
7-27-9		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC	12.50%	422/204 642/281	0.00%
7-27-9		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC	12.50%	422/204 642/281 662/322	0.00%
7-27-9		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc.	12.50%	422/204 642/281 662/322 675/279	0.00%
7-27-9		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC	12.50%	422/204 642/281 662/322 675/279 33/110	0.00%
7-27-9		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC	12.50%	422/204 642/281 662/322 675/279 33/110 33/424	0.00%
7-27-9		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC	12.50%	422/204 642/281 662/322 675/279 33/110	0.00%
7-27-9 7-27-10		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC	12.50%	422/204 642/281 662/322 675/279 33/110 33/424	0.00%
		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Flora Grathwell (Flo Grathwell) and Sam Grathwell, her husband; Georgia Snyder and B.L. Snyder, her	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC	12.50%	422/204 642/281 662/322 675/279 33/110 33/424	
		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC	12.50%	422/204 642/281 662/322 675/279 33/110 33/424	
		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Flora Grathwell (Flo Grathwell) and Sam Grathwell, her husband; Georgia Snyder and B.L. Snyder, her husband; John P. Franklin and Lucille Franklin, his	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC SWN Production Company, LLC		422/204 642/281 662/322 675/279 33/110 33/424 36/422	
		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Flora Grathwell (Flo Grathwell) and Sam Grathwell, her husband; Georgia Snyder and B.L. Snyder, her husband; John P. Franklin and Lucille Franklin, his wife;	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC SWN Production Company, LLC		422/204 642/281 662/322 675/279 33/110 33/424 36/422	
		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Flora Grathwell (Flo Grathwell) and Sam Grathwell, her husband; Georgia Snyder and B.L. Snyder, her husband; John P. Franklin and Lucille Franklin, his wife; The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC SWN Production Company, LLC The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation		422/204 642/281 662/322 675/279 33/110 33/424 36/422 371/581 422/204	
		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Flora Grathwell (Flo Grathwell) and Sam Grathwell, her husband; Georgia Snyder and B.L. Snyder, her husband; John P. Franklin and Lucille Franklin, his wife; The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC SWN Production Company, LLC The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC		422/204 642/281 662/322 675/279 33/110 33/424 36/422 371/581 422/204 642/281	
		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Flora Grathwell (Flo Grathwell) and Sam Grathwell, her husband; Georgia Snyder and B.L. Snyder, her husband; John P. Franklin and Lucille Franklin, his wife; The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC SWN Production Company, LLC The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC		422/204 642/281 662/322 675/279 33/110 33/424 36/422 371/581 422/204 642/281 662/322	
		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Flora Grathwell (Flo Grathwell) and Sam Grathwell, her husband; Georgia Snyder and B.L. Snyder, her husband; John P. Franklin and Lucille Franklin, his wife; The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC SWN Production Company, LLC The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc.		422/204 642/281 662/322 675/279 33/110 33/424 36/422 371/581 422/204 642/281 662/322 675/279	
		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Flora Grathwell (Flo Grathwell) and Sam Grathwell, her husband; Georgia Snyder and B.L. Snyder, her husband; John P. Franklin and Lucille Franklin, his wife; The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC SWN Production Company, LLC The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Exchange Titleholder LLC		422/204 642/281 662/322 675/279 33/110 33/424 36/422 371/581 422/204 642/281 662/322 675/279 33/110	
7-27-10		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Flora Grathwell (Flo Grathwell) and Sam Grathwell, her husband; Georgia Snyder and B.L. Snyder, her husband; John P. Franklin and Lucille Franklin, his wife; The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Ralph W. Evans and Nellie F. Evans, his wife; Brooks B. Evans and Sara E. Evans, his wife; Harold P. Evans and	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC SWN Production Company, LLC The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC	12.50%	422/204 642/281 662/322 675/279 33/110 33/424 36/422 371/581 422/204 642/281 662/322 675/279 33/110 33/424	0.00%
7-27-10		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Flora Grathwell (Flo Grathwell) and Sam Grathwell, her husband; Georgia Snyder and B.L. Snyder, her husband; John P. Franklin and Lucille Franklin, his wife; The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Ralph W. Evans and Nellie F. Evans, his wife; Brooks B. Evans and Sara E. Evans, his wife; Harold P. Evans and Maude Evans, his wife	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC SWN Production Company, LLC The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC		422/204 642/281 662/322 675/279 33/110 33/424 36/422 371/581 422/204 642/281 662/322 675/279 33/110 33/424	0.00%
7-27-10		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Flora Grathwell (Flo Grathwell) and Sam Grathwell, her husband; Georgia Snyder and B.L. Snyder, her husband; John P. Franklin and Lucille Franklin, his wife; The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Ralph W. Evans and Nellie F. Evans, his wife; Brooks B. Evans and Sara E. Evans, his wife; Harold P. Evans and Maude Evans, his wife The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC SWN Production Company, LLC The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Exchange Titleholder LLC The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation	12.50%	422/204 642/281 662/322 675/279 33/110 33/424 36/422 371/581 422/204 642/281 662/322 675/279 33/110 33/424 299/327	0.00%
7-27-10		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Flora Grathwell (Fio Grathwell) and Sam Grathwell, her husband; Georgia Snyder and B.L. Snyder, her husband; John P. Franklin and Lucille Franklin, his wife; The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Ralph W. Evans and Nellie F. Evans, his wife; Brooks B. Evans and Sara E. Evans, his wife; Harold P. Evans and Maude Evans, his wife The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC SWN Production Company, LLC The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC	12.50%	422/204 642/281 662/322 675/279 33/110 33/424 36/422 371/581 422/204 642/281 662/322 675/279 33/110 33/424 299/327 422/204 642/281	0.00%
7-27-10		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Chesapeake Appalachia, LLC Flora Grathwell (Flo Grathwell) and Sam Grathwell, her husband; Georgia Snyder and B.L. Snyder, her husband; John P. Franklin and Lucille Franklin, his wife; The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Ralph W. Evans and Nellie F. Evans, his wife; Brooks B. Evans and Sara E. Evans, his wife; Harold P. Evans and Maude Evans, his wife The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Exchange Titleholder LLC SWN Production Company, LLC The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Exchange Titleholder LLC The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation	12.50%	422/204 642/281 662/322 675/279 33/110 33/424 36/422 371/581 422/204 642/281 662/322 675/279 33/110 33/424 299/327	0.00%

		Service Brook of the French Control of the Control	SWN Production Company, LLC		33/110 33/424	
		Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder LLC		23/454	
	1-2-6	Elizabeth J. Myers, widow, G. M. Myers and Elinor		12.50%	22A/241	0.00%
		Myers, his wife, J. C. Myers and Virginia R. Myers, his				
		wife, Mary C. Harris and Frank Harris, her husband,				
		Anna S. Marshall and Fred C. Marshall, her husband,				
		and M. J. Yost, widow	Myers Oil Company			
		Myers Oil Company	James T. Miller, Trustee		45/211	
			John H. Luikart		31A/80	
		James I. Miles, Haster			251/431	
		Classes I de and langua I de has bushand Halon C				
		Florence Lyle and Joseph Lyle, her husband, Helen E. Tennant, widow, Paul Luikart and May Luikart, his				
		wife, Clarence Luikart and Margaret Luikart, his wife				
		Pearl Groves and Walter Groves, her husband, Sylvia				
		Mutti and Willis Mutti, her husband, Cora Eberhart				
		and James Eberhart, her husband, Goldie Shonk,				
		widow, Dorothy Johnson and Dale Johnson, her				
		husband, the Board of Trustees of the Most				
		Worshipful Grand Lodge of Ancient, Free and				
		Accepted Masons of West Virginia, Inc. Romaine L.				
		Evans, single, Charleen E. Hyde and Harry Hyde, her				
		husband, Albert Evans and Luella Evans, his wife,				
		Kenneth Evans, single, Helen E. Tennant, Administratrix of the Estate of John H. Luikart, and				
		Wheeling Dollar Savings and Trust Co., Executor of the	Helen E. Tennant and Raymond H. Hvre, and to			
		Will of Grace Luikart	the survivor of them as Trustees			
		Raymond H. Hyre, as surviving Trustee under the			251/495	
		Provisions of Trust Agreement dated September 4,			6.450	
		1973	Robert E. Litman and Robert L. Skinner			
		Robert L. Skinner	Robert E. Litman		251/499	
		Josephine K. Litman, a widow	Pikewood Energy Corporation		280A/381	
		Pikewood Energy Corporation	SWN Production Company, LLC		281A/415	
				12.50%	166A/931	0.00%
8	1-2-6.1	Chesapeake Appalachia, LLC	SWN Production Company, LLC	12.50%	1004/931	0.00%
9	1-2-6.2	Chesapeake Appalachia, LLC	SWN Production Company, LLC	12.50%	166A/931	0.00%
10	1-5-10	Nettle L. Seidler	Antero Resources Corporation	18%	212A/235	0.00%
		Antero Resources Corporation	EQT Production Company		231A/59	
		Antero Resources Corporation	EQT Production Company		231A/158	
		EQT Production Company	SWN Production Company, LLC		279A/35	
		Piney Holdings, Inc.	Antero Resources Corporation		189A/56	
		Antero Resources Corporation	EQT Production Company		231A/59	
		Antero Resources Corporation	EQT Production Company		231A/158	
		EQT Production Company	SWN Production Company, LLC		279A/35	
			The state of the s			
11	1-6-1	Royalty Owner Morris Mountaineer Oil and Gas LLC	n/a Antero Resources Corporation	n/a 20%	n/a 257A/400	12.50%
		Morris Mountaineer Oil and Gas, LLC	SWN Production Company, LLC/Equinor USA	2070	PS/ D/ TOD	
		Antero Resources Corporation	Onshore Properties, Inc.		272A/588	
		Piney Holdings, Inc.	Antero Resources Corporation	20%	293A/417	
		Antero Resources Corporation	EQT Production Company	5.49	231A/59	
		, anticomica corporation	SWN Production Company, LLC/Equinor USA			
		EQT Production Company	Onshore Properties, Inc.		279A/35	
		Gore-Morris Trust, by WesBanco Bank, Inc., as	and I make a war		7777	
		Successor Trustee	Antero Resources Corporation	20%	257A/394	
		Annual Martine State Control	SWN Production Company, LLC/Equinor USA		2224	
		Antero Resources Corporation	Onshore Properties, Inc.		272A/588	
12	UNKNOWN	Royalty Owner	n/a	n/a	n/a	19.77%
		Agnes Elnora Burns Loucks Owens	SWN Production Company, LLC	17%	283A/821	
		Allan Paul Dunkle, single	SWN Production Company, LLC	17%	269A/310	
		Aleta E Beatty Gregg	SWN Production Company, LLC	17%	288A/249	
		Amy L. Sage, a married woman dealing in her sole and			Soul Les	
		separate property	Antero Resources Corporation SWN Production Company, LLC/Equinor USA	15%	213A/523	
			27711 I Touriedon Company, ELC/Equitor OSA		2724/000	
		Antero Resources Corporation	Onshore Properties, Inc.		2/2A/588	
		Antero Resources Corporation	Onshore Properties, Inc.	17%	272A/588 290A/539	
		Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and	SWN Production Company, LLC	17%	290A/539	
		Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property	SWN Production Company, LLC	17% 17%		
		Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and	SWN Production Company, LLC		290A/539	

TH Exploration, LLC	EQT Production Company		258A/333
EQT Production Company	SWN Production Company, LLC/Equinor USA Onshore Properties, Inc		279A/34
Cornell Holdings, Inc.	TH Exploration, LLC	12.50%	204A/111
TH Exploration, LLC	EQT Production Company	22.50%	258A/333
	SWN Production Company, LLC/Equinor USA		
EQT Production Company David L. Charlton and Donna D. Charlton, husband and	Onshore Properties, Inc		279A/34
wife	TH Exploration, LLC	18%	216A/625
David Scott Charlton	SWN Production Company, LLC	17%	289A/559
DruAnn Beatty, married dealing in her sole and separate property	SWN Production Company, LLC	17.00%	269A/280
DWG Oil & Gas Acquisitions, LLC	EQT Production Company	12.50%	188A/187
EQT Production Company	SWN Production Company, LLC		279A/35
Frances Burns Taylor	SWN Production Company, LLC	17%	284A/401
Glen R. Charlton	SWN Production Company, LLC	17%	282A/554
Heather Colleen Charlton	SWN Production Company, LLC	17%	288A/255
Helen Beatty Destefano	SWN Production Company, LLC	17%	289A/595
H&M Land and Mineral, Inc.	EQT Production Company	12.50%	192A/698
ricky Land and Willeral, Inc.	SWN Production Company, LLC, LLC/Equinor USA	22.5070	
EQT Production Company	Onshore Properties, Inc		279A/34
Ileana Masters	SWN Production Company, LLC	17%	285A/175
Jan Leslie Fuller and Kevin W. Fuller, her husband	SWAI Production Company 11 C	20%	281A/420
,	SWN Production Company, LLC SWN Production Company, LLC	17%	284A/407
Jeanne McWilliams Jennifer J. Nicolini, dealing in her sole and separate	SVVN Production Company, LLC	17/0	2047/407
property	SWN Production Company, LLC	17%	280A/343
Jessica J. Nelson	SWN Production Company, LLC	17%	283A/406
John R. Charlton, single	SWN Production Company, LLC	17%	270A/436
Kathy Knaggs, aka Emily Kathleen Knaggs	SWN Production Company, LLC	17%	287A/127
Kevin James Charlton	SWN Production Company, LLC	17%	289A/565
Lawrence J Charlton	SWN Production Company, LLC	17%	289A/553
Lawrence Thomas "Larry" Beatty	SWN Production Company, LLC	17%	289A/542
Linda Ann Wade, a/k/a Linda Ann Miller	SWN Production Company, LLC	17%	282A/498
Lois J. Beatty, divorced	SWN Production Company, LLC	17%	284A/395
Margaret Kathleen Burns Campos	SWN Production Company, LLC	17%	283A/815
iviargaret Kathleen burns campos	SWW Production company, LLC	1770	203/7/013
Mark Loar, as POA for Betty J. Hamilton, widow	SWN Production Company, LLC	17%	282A/461
Marlen Lee Beatty, single	SWN Production Company, LLC	17%	289A/582
Marsha Kay Bailey Pattisson	SWN Production Company, LLC	17%	289A/588
Michelle Work aka Michelle A. Solitro	SWN Production Company, LLC	17%	285A/187
Nicholas Nelson	SWN Production Company, LLC	17%	285A/778
Pamela J Beatty Fischer	SWN Production Company, LLC	17%	290A/132
Patricia Irene Beatty	SWN Production Company, LLC	17%	289A/618
Ralph Harrison Dunkle, Jr. and Jacqueline F. Dunkle,			
his wife Reshal Rea Dunkle, married dealing in her sale and	SWN Production Company, LLC	17%	279A/693
Rashal Rae Dunkle, married dealing in her sole and separate property	SWN Production Company, LLC	17%	280A/375
Raymond Edward Beatty n/k/a Dudley D. Balmer	SWN Production Company, LLC	17%	289A/536
Richard E. Work	SWN Production Company, LLC	17%	285A/739
Robert Roy Chariton	SWN Production Company, LLC	17%	287A/121
Robert Roy Chariton	SWW Production Company, LLC	1776	20/7/121
Ruth Eileen Anthony, a/k/a Ruth "Ilene" Anthony	SWN Production Company, LLC	17%	285A/301
Sherran Faye Slaska, married dealing in her sole and	SWN Production Company, LLC	17%	269A/304
separate property		18%	
Sherri E. Johnson, a single woman	TH Exploration, LLC	1070	216A/630
TH Exploration, LLC	EQT Production Company SWN Production Company, LLC/Equinor USA		258A/333
EQT Production Company	Onshore Properties, Inc		279A/34
Stacie Burns Warco	SWN Production Company, LLC	17%	283A/827
Steven M. Charlton and Michelle A. Charlton, husband		400/	2454/525
and wife	TH Exploration, LLC	18%	216A/686
TH Exploration, LLC	EQT Production Company SWN Production Company, LLC/Equinor USA		258A/333
EQT Production Company	Onshore Properties, Inc		279A/34
Stone Hill Minerals Holdings LLC	EQT Production Company	12.50%	180A/614
-	SWN Production Company, LLC/Equinor USA		•
EQT Production Company	Onshore Properties, Inc		279A/34
Stone Hill Minerals Holdings LLC	TH Exploration, LLC	12.50%	207A/565
TH Exploration, LLC	EQT Production Company		258A/333
FOT Production Company	SWN Production Company, LLC/Equinor USA		2704/24
EQT Production Company Suzanne B. Kartis and George Howard Kartis, her	Onshore Properties, Inc		279A/34
husband	SWN Production Company, LLC	17%	284A/327
Tammy M. Hobart, widow	SWN Production Company, LLC	17%	269A/604

		Terri J. Ingram, a married woman dealing in her sole and separate property	TH Exploration, LLC	18%	216A/637	
		TH Exploration, LLC	EQT Production Company	2074	258A/333	
			SWN Production Company, LLC/Equinor USA		279A/34	
			Onshore Properties, Inc	12 500/	194A/384	
		TH Exploration, LLC	TH Exploration, LLC EQT Production Company	12.50%	258A/333	
			SWN Production Company, LLC/Equinor USA Onshore Properties, Inc		279A/34	
		Vanita & Cordova Holding Company, LLC	Vanita & Cordova Holding Company, LLC TH Exploration, LLC	12.50%	204A/188	
		TH Exploration, LLC	EQT Production Company SWN Production Company, LLC/Equinor USA		258A/333	
		EQT Production Company	Onshore Properties, Inc		279A/34	
		Vanita & Cordova Holding Company, LLC	SWN Production Company, LLC	12.50%	257A/423	
		John Burns III	SWN Production Company, LLC	17%	287A/806	
		Linda Burns	SWN Production Company, LLC	17%	287A/800	
13	1-6-4	Chesapeake Appalachía, L.L.C.	SWN Production Company, LLC	12,50%	166A/931	0.00%
4	1-6-5	Royalty Owner	n/a	n/a	n/a	19.77%
		Agnes Elnora Burns Loucks Owens	SWN Production Company, LLC	17%	283A/821	
		Allan Paul Dunkle, single	SWN Production Company, LLC	17%	269A/310	
		Aleta E Beatty Gregg	SWN Production Company, LLC	17%	288A/249	
		Amy L. Sage, a married woman dealing in her sole and separate property	Antero Resources Corporation	15%	213A/523	
		Author Baranters Charles III	SWN Production Company, LLC/Equinor USA		272A/C00	
		Antero Resources Corporation	Onshore Properties, Inc.	170/	272A/588 290A/539	
		Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and		17%	290A/539 279A/617	
		separate property Carol Jean Dunkle Bartok aka Carol Jean Bartok,	SWN Production Company, LLC			
		widow	SWN Production Company, LLC	17%	279A/687	
		Cornell Holdings, Inc.	TH Exploration, LLC	12.50%	194A/380	
		TH Exploration, LLC	EQT Production Company SWN Production Company, LLC/Equinor USA		258A/333	
		EQT Production Company	Onshore Properties, Inc		279A/34	
		Cornell Holdings, Inc.	TH Exploration, LLC	12.50%	204A/111	
		TH Exploration, LLC	EQT Production Company SWN Production Company, LLC/Equinor USA		258A/333	
		EQT Production Company David L. Charlton and Donna D. Charlton, husband and	Onshore Properties, Inc		279A/34	
		wife	TH Exploration, LLC	18%	216A/625	
		David Scott Charlton DruAnn Beatty, married dealing in her sole and	SWN Production Company, LLC	17%	289A/559	
		separate property	SWN Production Company, LLC	17.00%	269A/280	
		DWG Oil & Gas Acquisitions, LLC	EQT Production Company	12.50%	188A/187	
		EQT Production Company	SWN Production Company, LLC		279A/35	
		Frances Burns Taylor	SWN Production Company, LLC	17%	284A/401	
		Glen R. Charlton	SWN Production Company, LLC	17%	282A/554	
		Heather Colleen Charlton	SWN Production Company, LLC	17%	288A/255	
		Helen Beatty Destefano	SWN Production Company, LLC	17%	289A/595	
		H&M Land and Mineral, Inc.	EQT Production Company SWN Production Company, LLC, LLC/Equinor USA	12.50%	192A/698	
		EQT Production Company	Onshore Properties, Inc		279A/34	
		Ileana Masters	SWN Production Company, LLC	17%	285A/175	
		Jan Leslie Fuller and Kevin W. Fuller, her husband	SWN Production Company, LLC	20%	281A/420	
		Jeanne McWilliams Jeonifer J. Nicolini, dealing in her sole and separate	SWN Production Company, LLC	17%	284A/407	
		property	SWN Production Company, LLC	17%	280A/343	
		Jessica J. Nelson	SWN Production Company, LLC	17%	283A/406	
		John R. Charlton, single	SWN Production Company, LLC	17%	270A/436	
		Kathy Knaggs, aka Emily Kathleen Knaggs	SWN Production Company, LLC	17%	287A/127	
		Kevin James Charlton	SWN Production Company, LLC	17%	289A/565	
		Lawrence J Charlton	SWN Production Company, LLC	17%	289A/553	
		Lawrence Thomas "Larry" Beatty	SWN Production Company, LLC	17%	289A/542	
		Linda Ann Wade, a/k/a Linda Ann Miller	SWN Production Company, LLC	17%	282A/498	
		Lois J. Beatty, divorced Margaret Kathleen Burns Campos	SWN Production Company, LLC SWN Production Company, LLC	17% 17%	284A/395 283A/815	
		Mark Loar, as POA for Betty J. Hamilton, widow	SWN Production Company, LLC	17%	282A/461	
		Marlen Lee Beatty, single	SWN Production Company, LLC	17%	289A/582	
		Marsha Kay Bailey Pattisson	SWN Production Company, LLC	17%	289A/588	
				17%		
		Michelle Work aka Michelle A. Solitro	SWN Production Company, LLC	1770	285A/187	

	Pamela J Beatty Fischer	SWN Production Company, LLC	17%	290A/132	
	Patricia Irene Beatty	SWN Production Company, LLC	17%	289A/618	
	Ralph Harrison Dunkle, Jr. and Jacqueline F. Dunkle,				
	his wife	SWN Production Company, LLC	17%	279A/693	
	Rashal Rae Dunkle, married dealing in her sole and			242,654	
	separate property	SWN Production Company, LLC	17%	280A/375	
	27 - 100 - 112 - 1	auto tra	4.76/	2004/526	
	Raymond Edward Beatty n/k/a Dudley D. Balmer	SWN Production Company, LLC	17%	289A/536	
	Richard E. Work	SWN Production Company, LLC	17%	285A/739	
	Robert Roy Charlton	SWN Production Company, LLC	17%	287A/121	
	0.750.000.000.000.000.000.000.000.000.00	DWG 4 W DOWN AVA		2054 /204	
		SWN Production Company, LLC	17%	285A/301	
	Sherran Faye Slaska, married dealing in her sole and	PUM Paradicalities of Managers 1100	17%	269A/304	
		SWN Production Company, LLC			
	Sherri E. Johnson, a single woman	TH Exploration, LLC	18%	216A/630	
	TH Exploration, LLC	EQT Production Company		258A/333	
	5420 (7000 2000 E)	SWN Production Company, LLC/Equinor USA		2704/24	
	EQT Production Company	Onshore Properties, Inc	250	279A/34	
	Stacie Burns Warco	SWN Production Company, LLC	17%	283A/827	
	Steven M. Charlton and Michelle A. Charlton, husband	TH Evploration IIC	18%	216A/686	
	and wife	TH Exploration, LLC	1070	10.71	
	TH Exploration, LLC	EQT Production Company		258A/333	
	EQT Production Company	SWN Production Company, LLC/Equinor USA Onshore Properties, Inc		279A/34	
			12 500/		
	Stone Hill Minerals Holdings LLC	EQT Production Company SWN Production Company, LLC/Equinor USA	12.50%	180A/614	
	EQT Production Company	Onshore Properties, Inc		279A/34	
			12 500/		
	Stone Hill Minerals Holdings LLC	TH Exploration, LLC	12.50%	207A/565	
	TH Exploration, LLC	EQT Production Company		258A/333	
	FOT Production Company	SWN Production Company, LLC/Equinor USA		279A/34	
	EQT Production Company Suzanne B. Kartis and George Howard Kartis, her	Onshore Properties, Inc		Er ary an	
	husband	SWN Production Company, LLC	17%	284A/327	
	Tammy M. Hobart, widow	SWN Production Company, LLC	17%	269A/604	
	Terri J. Ingram, a married woman dealing in her sole	SWW Froduction company, LLC	1770	2037/004	
	and separate property	TH Exploration, LLC	18%	216A/637	
	TH Exploration, LLC	EQT Production Company		258A/333	
	THE EXPLORATION, ELS.	SWN Production Company, LLC/Equinor USA		200 4 225	
	EQT Production Company	Onshore Properties, Inc		279A/34	
	Vanita & Cordova Holding Company, LLC	TH Exploration, LLC	12.50%	194A/384	
	TH Exploration, LLC	EQT Production Company		258A/333	
	TH EXPLORATION, LEC	SWN Production Company, LLC/Equinor USA		200,4200	
	EQT Production Company	Onshore Properties, Inc		279A/34	
	Vanita & Cordova Holding Company, LLC	TH Exploration, LLC	12.50%	204A/188	
	TH Exploration, LLC	EQT Production Company	22,9974	258A/333	
	TH Exploration, LLC	SWN Production Company, LLC/Equinor USA		2500,555	
	EQT Production Company	Onshore Properties, Inc		279A/34	
	Vanita & Cordova Holding Company, LLC	SWN Production Company, LLC	12.50%	257A/423	
	John Burns III	SWN Production Company, LLC	17%	287A/806	
			17%		
	Linda Burns	SWN Production Company, LLC	1/%	287A/800	
			P(15)	201101110	
and the same of th					2.000
15 1-6-6	Royalty Owner	n/a	n/a	n/a	19.77%
1-6-6	Royalty Owner Agnes Elnora Burns Loucks Owens	n/a SWN Production Company, LLC			19.77%
15 1-6-6	The second secon		n/a	n/a	19,77%
1-6-6	Agnes Elnora Burns Loucks Owens	SWN Production Company, LLC	n/a 17%	n/a 283A/821	19,77%
1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single	SWN Production Company, LLC SWN Production Company, LLC	n/a 17% 17% 17%	n/a 283A/821 269A/310 288A/249	19,77%
1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation	n/a 17% 17%	n/a 283A/821 269A/310	19,77%
1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA	n/a 17% 17% 17%	n/a 283A/821 269A/310 288A/249 213A/523	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc.	n/a 17% 17% 17% 17%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC	n/a 17% 17% 17%	n/a 283A/821 269A/310 288A/249 213A/523	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC	n/a 17% 17% 17% 15%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588 290A/539	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC	n/a 17% 17% 17% 17%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588	19.77%
1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property Carol Jean Dunkle Bartok aka Carol Jean Bartok,	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC SWN Production Company, LLC	n/a 17% 17% 17% 17% 15%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588 290A/539 279A/617	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property Carol Jean Dunkle Bartok aka Carol Jean Bartok, widow	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	n/a 17% 17% 17% 15% 15%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588 290A/539 279A/617	19.77%
1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property Carol Jean Dunkle Bartok aka Carol Jean Bartok, widow Cornell Holdings, Inc.	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC TH Exploration, LLC	n/a 17% 17% 17% 17% 15%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588 290A/539 279A/617 279A/687 194A/380	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property Carol Jean Dunkle Bartok aka Carol Jean Bartok, widow	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC TH Exploration, LLC EQT Production Company	n/a 17% 17% 17% 15% 15%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588 290A/539 279A/617	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property Carol Jean Dunkle Bartok aka Carol Jean Bartok, widow Cornell Holdings, Inc. TH Exploration, LLC	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC TH Exploration, LLC EQT Production Company SWN Production Company, LLC/Equinor USA	n/a 17% 17% 17% 15% 15%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588 290A/539 279A/617 279A/687 194A/380 258A/333	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property Carol Jean Dunkle Bartok aka Carol Jean Bartok, widow Cornell Holdings, Inc. TH Exploration, LLC EQT Production Company	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC TH Exploration, LLC EQT Production Company SWN Production Company, LLC/Equinor USA Onshore Properties, Inc	n/a 17% 17% 17% 15% 17% 17% 17%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588 290A/539 279A/617 279A/687 194A/380 258A/333	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property Carol Jean Dunkle Bartok aka Carol Jean Bartok, widow Cornell Holdings, Inc. TH Exploration, LLC EQT Production Company Cornell Holdings, Inc.	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC TH Exploration, LLC EQT Production Company SWN Production Company, LLC/Equinor USA Onshore Properties, Inc TH Exploration, LLC	n/a 17% 17% 17% 15% 15%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588 290A/539 279A/617 279A/687 194A/380 258A/333 279A/34 204A/111	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property Carol Jean Dunkle Bartok aka Carol Jean Bartok, widow Cornell Holdings, Inc. TH Exploration, LLC EQT Production Company	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC TH Exploration, LLC EQT Production Company, LLC/Equinor USA Onshore Properties, Inc TH Exploration, LLC EQT Production, LLC EQT Production Company	n/a 17% 17% 17% 15% 17% 17% 17%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588 290A/539 279A/617 279A/687 194A/380 258A/333	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property Carol Jean Dunkle Bartok aka Carol Jean Bartok, widow Cornell Holdings, Inc. TH Exploration, LLC EQT Production Company Cornell Holdings, Inc. TH Exploration, LLC	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC TH Exploration, LLC EQT Production Company, LLC/Equinor USA Onshore Properties, Inc TH Exploration, LLC EQT Production Company SWN Production Company SWN Production Company	n/a 17% 17% 17% 15% 17% 17% 17%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588 290A/539 279A/617 279A/687 194A/380 258A/333 279A/34 204A/111 258A/333	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property Carol Jean Dunkle Bartok aka Carol Jean Bartok, widow Cornell Holdings, Inc. TH Exploration, LLC EQT Production Company Cornell Holdings, Inc. TH Exploration, LLC	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC TH Exploration, LLC EQT Production Company, LLC/Equinor USA Onshore Properties, Inc TH Exploration, LLC EQT Production Company, LLC/Equinor USA Onshore Properties, Inc TH COMPANY SWN Production Company SWN Production Company SWN Production Company SWN Production Company, LLC/Equinor USA Onshore Properties, Inc	n/a 17% 17% 17% 15% 17% 17% 17%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588 290A/539 279A/617 279A/687 194A/380 258A/333 279A/34 204A/111	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property Carol Jean Dunkle Bartok aka Carol Jean Bartok, widow Cornell Holdings, Inc. TH Exploration, LLC EQT Production Company Cornell Holdings, Inc. TH Exploration, LLC EQT Production Company Cornell Holdings, Inc. TH Exploration, LLC	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC TH Exploration, LLC EQT Production Company SWN Production Company, LLC/Equinor USA Onshore Properties, Inc TH Exploration, LLC EQT Production Company SWN Production Company, LLC/Equinor USA Onshore Properties, Inc	n/a 17% 17% 17% 15% 17% 17% 17% 12.50%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588 290A/539 279A/617 279A/687 194A/380 258A/333 279A/34 204A/111 258A/333	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property Carol Jean Dunkle Bartok aka Carol Jean Bartok, widow Cornell Holdings, Inc. TH Exploration, LLC EQT Production Company Cornell Holdings, Inc. TH Exploration, LLC EQT Production Company David L. Charlton and Donna D. Charlton, husband and wife	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC TH Exploration, LLC EQT Production Company SWN Production Company, LLC/Equinor USA Onshore Properties, Inc TH Exploration, LLC EQT Production Company SWN Production Company Onshore Properties, Inc TH Exploration, LLC	n/a 17% 17% 17% 15% 17% 17% 17% 12.50%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588 290A/539 279A/617 279A/687 194A/380 258A/333 279A/34 204A/111 258A/333 279A/34 216A/625	19.77%
15 1-6-6	Agnes Elnora Burns Loucks Owens Allan Paul Dunkle, single Aleta E Beatty Gregg Amy L. Sage, a married woman dealing in her sole and separate property Antero Resources Corporation Anthony Steven Beatty Bonnie Jean Vangilder, married dealing in her sole and separate property Carol Jean Dunkle Bartok aka Carol Jean Bartok, widow Cornell Holdings, Inc. TH Exploration, LLC EQT Production Company Cornell Holdings, Inc. TH Exploration, LLC EQT Production Company Cornell Holdings, Inc. TH Exploration, LLC	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC/Equinor USA Onshore Properties, Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC TH Exploration, LLC EQT Production Company SWN Production Company, LLC/Equinor USA Onshore Properties, Inc TH Exploration, LLC EQT Production Company SWN Production Company, LLC/Equinor USA Onshore Properties, Inc	n/a 17% 17% 17% 15% 17% 17% 17% 12.50%	n/a 283A/821 269A/310 288A/249 213A/523 272A/588 290A/539 279A/617 279A/687 194A/380 258A/333 279A/34 204A/111 258A/333	19.77%

DWG Oil & Gas Acquisitions, LLC	EQT Production Company	12.50%	188A/187
EQT Production Company	SWN Production Company, LLC		279A/35
Frances Burns Taylor	SWN Production Company, LLC	17%	284A/401
Glen R. Charlton	SWN Production Company, LLC	17%	282A/554
Heather Colleen Charlton	SWN Production Company, LLC	17%	288A/255
Helen Beatty Destefano	SWN Production Company, LLC	17%	289A/595
H&M Land and Mineral, Inc.	EQT Production Company SWN Production Company, LLC, LLC/Equinor USA	12.50%	192A/698
EQT Production Company	Onshore Properties, Inc	470/	279A/34
lleana Masters	SWN Production Company, LLC	17%	285A/175
Jan Leslie Fuller and Kevin W. Fuller, her husband	SWN Production Company, LLC	20%	281A/420
Jeanne McWilliams	SWN Production Company, LLC	17%	284A/407
Jennifer J. Nicolini, dealing in her sole and separate			
property	SWN Production Company, LLC	17%	280A/343
Jessica J. Nelson	SWN Production Company, LLC	17%	283A/406
John R. Charlton, single	SWN Production Company, LLC	17%	270A/436
Kathy Knaggs, aka Emily Kathleen Knaggs	SWN Production Company, LLC	17%	287A/127
Kevin James Charlton	SWN Production Company, LLC	17% 17%	289A/565 289A/553
Lawrence J Charlton	SWN Production Company, LLC SWN Production Company, LLC	17%	289A/542
Lawrence Thomas "Larry" Beatty Linda Ann Wade, a/k/a Linda Ann Miller	SWN Production Company, LLC	17%	282A/498
Lois J. Beatty, divorced	SWN Production Company, LLC	17%	284A/395
Margaret Kathleen Burns Campos	SWN Production Company, LLC	17%	283A/815
Walgaret Natifices barris campos	51111 / Judation Company, 220		
Mark Loar, as POA for Betty J. Hamilton, widow	SWN Production Company, LLC	17%	282A/461
Marlen Lee Beatty, single	SWN Production Company, LLC	17%	289A/582
Marsha Kay Bailey Pattisson	SWN Production Company, LLC	17%	289A/588
Michelle Work aka Michelle A. Solitro	SWN Production Company, LLC	17%	285A/187
Nicholas Nelson	SWN Production Company, LLC	17%	285A/778
Pamela J Beatty Fischer	SWN Production Company, LLC	17%	290A/132
Patricia Irene Beatty	SWN Production Company, LLC	17%	289A/618
Ralph Harrison Dunkle, Jr. and Jacqueline F. Dunkle, his wife	SWN Production Company, LLC	17%	279A/693
Rashal Rae Dunkle, married dealing in her sole and separate property	SWN Production Company, LLC	17%	280A/375
separate property	Striving and Company, and		
Raymond Edward Beatty n/k/a Dudley D. Balmer	SWN Production Company, LLC	17%	289A/536
Richard E. Work	SWN Production Company, LLC	17%	285A/739
Robert Roy Charlton	SWN Production Company, LLC	17%	287A/121
Ruth Eileen Anthony, a/k/a Ruth "Ilene" Anthony	SWN Production Company, LLC	17%	285A/301
Sherran Faye Slaska, married dealing in her sole and separate property	SWN Production Company, LLC	17%	269A/304
Sherri E. Johnson, a single woman	TH Exploration, LLC	18%	216A/630
TH Exploration, LLC	EQT Production Company		258A/333
	SWN Production Company, LLC/Equinor USA		·
EQT Production Company	Onshore Properties, Inc		279A/34
Stacie Burns Warco	SWN Production Company, LLC	17%	283A/827
Steven M. Charlton and Michelle A. Charlton, husband and wife	TH Exploration, LLC	18%	216A/686
TH Exploration, LLC	EQT Production Company	20,0	258A/333
THE Exploration, ELC	SWN Production Company, LLC/Equinor USA		200.4000
EQT Production Company	Onshore Properties, Inc		279A/34
Stone Hill Minerals Holdings LLC	EQT Production Company	12.50%	180A/614
	SWN Production Company, LLC/Equinor USA		2704/24
EQT Production Company	Onshore Properties, Inc	43 500/	279A/34
Stone Hill Minerals Holdings LLC	TH Exploration, LLC	12.50%	207A/565
TH Exploration, LLC	EQT Production Company SWN Production Company, LLC/Equinor USA		258A/333
EQT Production Company Suzanne B. Kartis and George Howard Kartis, her	Onshore Properties, Inc		279A/34
husband	SWN Production Company, LLC	17%	284A/327
Tammy M. Hobart, widow	SWN Production Company, LLC	17%	269A/604
Terri J. Ingram, a married woman dealing in her sole and separate property	TH Exploration, LLC	18%	216A/637
TH Exploration, LLC	EQT Production Company		258A/333
	SWN Production Company, LLC/Equinor USA		
EQT Production Company	Onshore Properties, Inc		279A/34
Vanita & Cordova Holding Company, LLC	TH Exploration, LLC	12.50%	194A/384
TH Exploration, LLC	EQT Production Company SWN Production Company 11 C/Equipor 11SA		258A/333
EQT Production Company	SWN Production Company, LLC/Equinor USA Onshore Properties, Inc		279A/34
Vanita & Cordova Holding Company, LLC	TH Exploration, LLC	12.50%	204A/188
TH Exploration, LLC	EQT Production Company		258A/333

		EQT Production Company	SWN Production Company, LLC/Equinor USA Onshore Properties, Inc		279A/34	
		Vanita & Cordova Holding Company, LLC	SWN Production Company, LLC	12.50%	257A/423	
		John Burns III	SWN Production Company, LLC	17%	287A/806	
		Linda Burns	SWN Production Company, LLC	17%	287A/800	
16	3-1-7	Delores A. Showalter Horner	TH Exploration, LLC	18%	285A/65	0.00%
		TH Exploration, LLC	SWN Production Company, LLC		See Attached	
17	3-1-23	Stone Hill Minerals Holdings, LLC	TH Exploration, LLC	19%	261A/890	0.00%
		TH Exploration, LLC	SWN Production Company, LLC		49/615	
18	3-1-22	Piney Holdings, Inc.	SWN Production Company, LLC	20%	293A/415	0.00%
19	3-1-29	Piney Holdings, Inc.	SWN Production Company, LLC	20%	261A/91	0.00%

ASSIGNMENT AND CONVEYANCE

This Assignment and Conveyance (this "Assignment") is from TH Exploration, LLC, a Texas limited liability company ("Assignor"), to SWN PRODUCTION COMPANY, LLC, a Texas limited liability company ("SWN"), and EQUINOR USA ONSHORE PROPERTIES INC, a Delaware corporation ("EQNR" and, together with SWN, the "Assignees"), and is executed on July _______, 2022 (the "Effective Date"). Assignor and Assignees may be referred to herein collectively as the "Parties," or individually as a "Party." Capitalized terms used herein but not otherwise defined herein (including in Section 3.7) shall have the meanings given such terms in that certain Acreage Trade Agreement between the Assignor and the Assignees dated March 25, 2022 (the "Acreage Trade Agreement").

ARTICLE 1 ASSIGNMENT OF ASSETS

Section 1.1 <u>Assignment</u>. For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby GRANTS, BARGAINS, ASSIGNS, CONVEYS AND TRANSFERS unto (a) SWN an undivided 74.0000% of Assignor's right title and interest in and to and (b) EQNR an undivided 26.0000% of Assignor's right, title and interest in and to, in the case of both (a) and (b), (i) the oil and gas leases described in more detail on Exhibit A attached hereto (the "Leases") INSOFAR AND ONLY INSOFAR as they cover those lands described on Exhibit A (the "Leasehold Rights") and (ii) any surface use agreements that relate to such Leasehold Rights (collectively with the Leasehold Rights, the "Conveyed Assets").

TO HAVE AND TO HOLD the Conveyed Assets, together with all and singular the rights, privileges, contracts and appurtenances, in any way appertaining or belonging thereto, unto Assignees, its successors and assigns, forever, subject, to the terms and conditions of this Assignment.

Section 1.2 <u>Assignment Subject to Acreage Trade Agreement</u>. This Assignment is made in accordance with and is subject to the terms, covenants and conditions contained in that certain Acreage Trade Agreement. In the event of a conflict between the provisions of the Acreage Trade Agreement and this Assignment, the provisions of the Acreage Trade Agreement shall control. The execution and delivery of this Assignment by Assignor, and the execution and acceptance of this Assignment by Assignees, shall not operate to release or impair any surviving rights or obligations of either Party with respect to the other under the Acreage Trade Agreement.

ARTICLE 2 SPECIAL WARRANTY OF TITLE AND DISCLAIMERS

RECEIVED

Environmental Protection

Section 2.1 Special Warranty of Title. Assignor hereby agrees to warrant and defend of and Gas Defensible Title to the Leases unto Assignees, its successors and assigns, against every Person 2 0 2022 whomsoever lawfully claiming or to claim the same or any part thereof by, through or under 2 0 2022 Assignor or any of their respective Affiliates, but not otherwise.

Section 2.2 <u>Disclaimers of Warranties and Representations.</u>

EXCEPT AS EXPRESSLY REPRESENTED OTHERWISE IN SECTION VI OF THE ACREAGE TRADE AGREEMENT OR THIS ASSIGNMENT, ASSIGNOR MAKES NO, AND HEREBY EXPRESSLY DISCLAIMS, ANY REPRESENTATION OR WARRANTY, EXPRESS, IMPLIED OR STATUTORY, INCLUDING AS TO (I) TITLE TO THE LEASEHOLD RIGHTS, (II) THE CONTENTS, CHARACTER OR NATURE OF ANY DESCRIPTIVE MEMORANDUM, OR ANY REPORT OF ANY OF ITS PETROLEUM ENGINEERING CONSULTANTS, OR ANY GEOLOGICAL OR SEISMIC DATA OR INTERPRETATION, RELATING TO THE LEASEHOLD RIGHTS, (III) THE QUANTITY, QUALITY OR RECOVERABILITY OF PETROLEUM SUBSTANCES IN OR FROM THE LEASEHOLD RIGHTS, (IV) THE EXISTENCE OF ANY PROSPECT, OR ANY RECOMPLETION, INFILL OR STEP-OUT DRILLING OPPORTUNITIES, (V) ANY ESTIMATES OF THE VALUE OF THE LEASEHOLD RIGHTS, (VI) THE PRODUCTION OF PETROLEUM SUBSTANCES FROM THE LEASEHOLD RIGHTS, OR ANY PRODUCTION OR DECLINE RATES, (VII) THE MAINTENANCE, REPAIR, CONDITION, QUALITY, SUITABILITY, DESIGN OR MARKETABILITY OF THE LEASEHOLD RIGHTS, (VIII) INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHT, AND (IX) ANY OTHER MATERIALS OR INFORMATION THAT MAY HAVE BEEN MADE AVAILABLE OR COMMUNICATED TO TUG HILL OR ITS AFFILIATES, OR ITS OR THEIR RESPECTIVE EMPLOYEES, AGENTS, CONSULTANTS, REPRESENTATIVES OR ADVISORS IN CONNECTION WITH THE TRANSACTIONS CONTEMPLATED BY THIS ASSIGNMENT OR ANY DISCUSSION OR PRESENTATION RELATING THERETO, AND FURTHER DISCLAIMS ANY REPRESENTATION OR WARRANTY, EXPRESS, IMPLIED, OR STATUTORY, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR CONFORMITY TO MODELS OR SAMPLES OF MATERIALS OR ANY EQUIPMENT, IT BEING EXPRESSLY UNDERSTOOD AND AGREED BY THE PARTIES THAT, EXCEPT AS EXPRESSLY REPRESENTED OTHERWISE IN SECTION VI OF THE ACREAGE TRADE AGREEMENT OR THIS ASSIGNMENT, THE LEASEHOLD RIGHTS ARE BEING TRANSFERRED BY IT "AS IS, WHERE IS," WITH ALL FAULTS AND DEFECTS.

ARTICLE 3 MISCELLANEOUS

Section 3.1 Separate Assignments. Where separate assignments of Conveyed Assets have been, or will be, executed for filing with and approval by applicable Governmental Authorities, any such separate assignments (a) shall evidence the Assignment and assignment of the applicable Conveyed Assets herein made, and shall not constitute any additional Assignment or assignment of the Conveyed Assets, (b) are not intended to modify, and shall not modify, any of the terms, covenants and conditions, or limitations on warranties, set forth in this Assignment and are not intended to create, and shall not create, any representations, warranties or additional covenants of or by Assignor to Assignees, and (c) shall be deemed to contain all of the terms and provisions of this Assignment, as fully and to all intents and purposes as though the same were set forth at length in such separate assignments.

Section 3.2 Governing Law. EXCEPT TO THE EXTENT THAT THE LAWS OF THE STATE OF WEST VIRGINIA ARE MANDATORILY APPLICABLE TO THESEIVED ASSIGNMENT IN CONNECTION WITH THE CONVEYANCES OF PROPERTY Of and Gas

JUL 2 0 2022

INTERESTS INVOLVING REAL PROPERTY LOCATED IN THE STATE OF WEST VIRGINIA, THIS ASSIGNMENT AND ANY CLAIM, CONTROVERSY OR DISPUTE ARISING UNDER OR RELATED TO THIS ASSIGNMENT OR THE RIGHTS, DUTIES AND RELATIONSHIP OF THE PARTIES, SHALL BE GOVERNED BY AND CONSTRUED AND ENFORCED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS, EXCLUDING ANY CONFLICTS OF LAW, RULE OR PRINCIPLE THAT MIGHT REFER CONSTRUCTION OF PROVISIONS TO THE LAWS OF ANOTHER JURISDICTION. EXCEPT AS OTHERWISE PROVIDED IN THE ACREAGE TRADE AGREEMENT, ANY DISPUTE, CONTROVERSY OR CLAIM ARISING OUT OF, RELATING TO OR IN CONNECTION WITH THIS ASSIGNMENT OR THE VALIDITY HEREOF, SHALL BE FINALLY SETTLED IN ACCORDANCE WITH SECTION XII.E. OF THE ACREAGE TRADE AGREEMENT.

- Section 3.3 Successors and Assigns. This Assignment shall bind and inure to the benefit of the Parties and their respective successors and assigns; provided, however, that nothing in this Assignment shall assign or grant, or in any way operate to assign or grant, any right, title or interest in, to or under the Acreage Trade Agreement to any successor or assign of Assignees with respect to the Conveyed Assets or any part thereof, it being expressly understood that rights, titles and interests under the Acreage Trade Agreement may only be obtained or assigned in accordance with the terms thereof.
- Section 3.4 <u>Titles and Captions</u>. All Article or Section titles or captions in this Assignment are for convenience only, shall not be deemed part of this Assignment and in no way define, limit, extend or describe the scope or intent of any provisions hereof. Except to the extent otherwise stated in this Assignment, references to "Articles" and "Sections" are to Articles and Sections of this Assignment, and references to "Exhibits" are to the Exhibits attached to this Assignment, which are made a part hereof and incorporated herein for all purposes.
- Section 3.5 Counterparts. This Assignment may be executed in any number of counterparts, and each such counterpart hereof shall be deemed to be an original instrument, but all of such counterparts shall constitute for all purposes one agreement. Multiple counterparts of this Assignment may be recorded with federal agencies and in the counties and parishes of the states where the Conveyed Assets are located, but the inclusion of a description of any Asset in more than one counterpart of this Assignment shall not be construed as having effected any cumulative, multiple or overlapping interest in the applicable Asset. Any signature hereto delivered by a party by facsimile or other electronic transmission shall be deemed an original signature hereto.
- Section 3.6 Prior Representations, Warranties and Covenants. To the extent, and only to the extent, (a) permitted by Law, (b) of any indemnity of Assignees provided to Assignor under the Acreage Trade Agreement and (c) such subrogation is not prohibited or otherwise restricted by the respective underlying instrument or agreement, Assignees shall be subrogated to Assignor's rights in and to all representations, warranties and covenants given with respect to the Conveyed Assets. To the extent provided in the preceding sentence, Assignor hereby grants and transfers to Assignees, its successors and assigns, to the extent so transferrable and permitted by Law, the benefit of and the right to enforce all representations, warranties and covenants, if any Conflice of Oil and Gas which Assignor is entitled to enforce with respect to the Conveyed Assets.

JUL **2 0** 2022

Section 3.7 <u>Definitions</u>. When used in this Assignment, the following terms shall have the meanings specified:

"Defensible Title" means, other than Permitted Encumbrances, with respect to such title of Assignor that:

- (i) entitles Assignees (in the aggregate) to the Net Acreage that is set forth on Exhibit B to the Acreage Trade Agreement for such Lease;
- (ii) entitles Assignees (in the aggregate) to receive and retain from each Lease described in Exhibit B to the Acreage Trade Agreement not less than the percentage set forth on Exhibit B to the Acreage Trade Agreement as the Net Revenue Interest in such Lease; and
- (iii) is free and clear of all liens (including mortgages or deeds of trust), suits, judgments, encumbrances, charges, adverse claims, burdens and defects that may adversely affect the ownership, development, operation or value of such Lease.

(Remainder of page intentionally left blank. Signatures to follow)

RECEIVED
Office of Oil and Gas

JUL 2 0 2022

EXECUTED as of the date of the Parties' acknowledgments below, but effective at the Effective Date.

ASSIGNOR:

TH EXPLORATION, LLC, a Texas limited liability company

By: David D. Kalish

Title: Senior Vice President - Land

ACKNOWLEDGMENTS

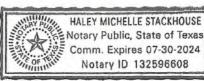
STATE OF TOUCH

On this, the day of July, 2022, before me a Notary Public, the undersigned officer, David D. Kalish, personally appeared and acknowledged himself to be the Senior Vice President - Land of TH Exploration, LLC, and that he as such Senior Vice President - Land and being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the corporation by himself as Senior Vice President - Land.

SEAL

My commission expires: 07-30-203

lotary Public



RECEIVED
Office of Oil and Gas

JUL 2 0 2022

ASSIGNEES:

SWN PRODUCTION COMPANY, LLC a Texas limited liability company

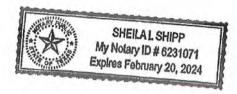
ROOM By: Name: PAN M BALHO Title: LAND

ACKNOWLEDGMENTS

STATE OF TEXAS.
COUNTY OF HARRIS
1th TI
On this, the 11 day of July, 2022, before me a Notary Public, the
undersigned officer, PAul M. Bacho, personally appeared and acknowledged himself to
be the LAND MANAGER, of SWN PROCYCTON Company, a
exas limited Gability, and that he as such LAND MANAGEN and being authorized to do so,
executed the foregoing instrument for the purposes therein contained by signing the name of the
corporation by himself as LAND Manager.
corporation by minuten as
Committee of the Commit
LALSHIPP () ().
Mary ID # 6231071
pires February 20, 2024
Notary Public ()

SEAL

My commission expires: 2/20/2024



RECEIVED Office of Oil and Gas

JUL 2 0 2022

ASSIGNEES

EQUINOR USA ONSHORE PROPERTIES INC, a Delaware corporation

	Name:	
	ACKNOWLEI	<u>DGMENTS</u>
STATE OF	<u>-</u>	
undersigned officer,	, perso	, 2022, before me a Notary Public, the sonally appeared and acknowledged himself to of, a
a executed the foregoing instrurt corporation by himself as	nd that he as such _ nent for the purpose:	and being authorized to do so, es therein contained by signing the name of the
		Notary Public
SEAL My commission expires:		

RECEIVED
Office of Oil and Gas

JUL 2 0 2022

Exhibit "A" Leases - TH Exploration, LLC to SWN and EQNR

Attached to and made a part of that certain Assignment and Conveyance, effective July 27222 by and between TH Exploration, LLC and SWN Production Company, LLC and Equinor USA Onshore Properties Inc.

TH Lease Number	Lessor	Lessee	Effective Date	County	District	BK - PG	Gross Acres	Tax Parcel Number	Partial Assignment	Conveyed Parcels	Retained Parcels	Conveyed Depths
10*40410	DELORSE A HORNER, WIDOW	TH EXPLORATION, LLC	03/03/2022	Wetzel	Clay	285A - 65	7.500000	3-1-7	No	3-1-7		ALL

RECEIVED Office of Oil and Gas

Page 1 of 1



SWN Production Company, LLC

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

July 14, 2022

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

RE: SWN's proposed New Well: Yocum MSH 206H in Marshall County, West Virginia, Drilling under Amos Hollow 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 Amos Hollow 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

RECEIVED
Office of Oil and Gas

JUL 2 0 2022

WV Department of Environmental Protection

R2 NV+

09/16/2022

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

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

Data of Notic	ce Certification:	A	PI No. 47- 009			
Date of Noti	ce certification.		perator's Wel		n MSH 206H	
			ell Pad Name			
Notice has l	been given:				and anomalies to	
	ne provisions in West Virginia Code §	§ 22-6A, the Operator has provid	ed the required	parties w	ith the Notice Forms listed	
	tract of land as follows:					
State:	West Virginia	1110/10/01/02		57.52		_
County:	051-Marshall	N		185.59		-
District:	Liberty	Public Road Access		Hollow Roa	d	
Quadrangle:	Littleton	Generally used farn	name: Yocu	m		_
Watershed:	Upper Ohio South					
requirements Virginia Code of this article	surface owner notice of entry to su of subsection (b), section sixteen o e § 22-6A-11(b), the applicant shall t have been completed by the applican West Virginia Code § 22-6A, the Op	f this article were waived in w ender proof of and certify to the at.	riting by the s secretary that t	urface ow he notice	ner; and Pursuant to Wes	t
that the Ope	rator has properly served the require				OOG OFFICE USE	
*PLEASE CHI	ECK ALL THAT APPLY			- 1	ONLY	
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS C		10	RECEIVED/ NOT REQUIRED	
■ 2. NO'	TICE OF ENTRY FOR PLAT SURV	YEY or NO PLAT SURVEY	WAS CONDI	UCTED	RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PL WAS CONDUCTED or			RECEIVED/ NOT REQUIRED	
		WRITTEN WAIVER BY (PLEASE ATTACH)	SURFACE O	WNER		
■ 4. NO	TICE OF PLANNED OPERATION		RECE!		RECEIVED	
■ 5. PUE	BLIC NOTICE		JUL 2 (RECEIVED	
■ 6. NO	TICE OF APPLICATION		WV Depar		☐ RECEIVED	

Required Attachments:

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

Environmental Protection

Certification of Notice is hereby given:

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

Well Operator: SWN Production Co., LLC

By: Brittany Woody

Its: Senior Regulatory Anal

Telephone: 304-884-1610

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile:

Email: Brittany_Woody@swn.com



Notary Public

My Commission Expires

8/21/2024

Oil and Gas Privacy Notice:

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

RECEIVED
Office of Oil and Gas

JUL 2 0 2022

WW-6A (9-13) API NO. 47- 009 OPERATOR WELL NO. Yocum MSH 206H
Well Pad Name: Yocum MSH

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

Notice Time Requirement: notice shall be provided no later that	n the filing date of permit application.
Date of Notice: 110 Date Permit Application Filed: 1	19
Notice of:	11-1-
	DOLLA DOLLAR
PERMIT FOR ANY CERTIFICATE OF APP	
WELL WORK CONSTRUCTION OF A	AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10	(b)
☐ PERSONAL ☐ REGISTERED ☐ METH	OD OF DELIVERY THAT REQUIRES A
SERVICE MAIL RECEI	IPT OR SIGNATURE CONFIRMATION
the surface of the tract on which the well is or is proposed to be located and gas leasehold being developed by the proposed well work, if described in the erosion and sediment control plan submitted pursual operator or lessee, in the event the tract of land on which the well proposed well work, if the surface tract is to be used for the placement, construction in the surface tract is to be used for the placement, construction in the surface tract of the surface tract of this article; (5) A have a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than three subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section of provision of this article to the contrary, notice to a lien holder is not	e tenants in common or other co-owners of interests described in nt may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. rovide the Well Site Safety Plan ("WSSP") to the surface owner and any
☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice	☑ Well Plat Notice is hereby provided to:
☑ SURFACE OWNER(s) Name: Joseph L. Yocum	COAL OWNER OR LESSEE
Address: 230 Curtis Ave	Name: Blaze Minerals Address: 520 Folly Road, Suite P285
Moundsville, WV 26041	Charleston, SC 29412
Name: Michael D. Yocum	COAL OPERATOR
Address: 2001 4th Street	Name:
Moundsville, WV 26041	Address: RECEIVED
SURFACE OWNER(s) (Road and/or Other Disturbance)	Office of Oil and Gas
Name:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s) JUL 2 0 2022
	N. Aller Anna Anna Anna Anna Anna Anna Anna Ann
Name:	Address: WV Department of
Address:	Environmental Protection
(100) (100)	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
☐ SURFACE OWNER(s) (Impoundments or Pits)	
Name:	Name: Address:
Address:	. 1990 950
Startey.	*Please attach additional forms if necessary

WW-6A (9-13) API NO. 47- 051 OPERATOR WELL NO. Yocum MSH 206H
Well Pad Name: Yocum MSH

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

Not	ice Time Requiren	nent: notice shall be	provided no later that	n the filing date of permit application.	
	7/10		7	10	
Dat	e of Notice:	Date Permit A	pplication Filed:		
Not	ice of:				
1	PERMIT FOR AL	VY CE	RTIFICATE OF APP	ROVAL FOR THE	
	WELL WORK	CC	ONSTRUCTION OF A	N IMPOUNDMENT OR PIT	
	(1-4-4-)				
Deli	ivery method purs	uant to West Virgi	nia Code § 22-6A-10	(b)	
	PERSONAL	☑ REGISTERE	ED	OD OF DELIVERY THAT REQUIRES A	
=	SERVICE	MAIL		PT OR SIGNATURE CONFIRMATION	
	SERVICE	1111112	, the h	i i okolo, li i oko oki i i kamili ok	
oil a desc oper more well impo have prov prop subs reco prov Cod	and gas leasehold being the distribution of lessee, in the ecoal seams; (4) The work, if the surface oundment or pit as detailed a water well, spring did water for consurposed well work activation (b) of this secrets of the sheriff recision of this article to R. § 35-8-5.7.a re	ing developed by the and sediment control event the tract of lar e owners of record of tract is to be used for escribed in section not gor water supply sour mption by humans or wity is to take place. (ection hold interests in quired to be maintained the contrary, notice quires, in part, that the	proposed well work, if I plan submitted pursuant and on which the well pro- f the surface tract or tra- or the placement, constru- ine of this article; (5) A cree located within one to domestic animals; and (c)(1) If more than three in the lands, the applican- ed pursuant to section e- e to a lien holder is not the operator shall also pro-	ted; (2) The owners of record of the surface tract the surface tract is to be used for roads or other int to subsection (c), section seven of this article; opposed to be drilled is located [sic] is known to lock overlying the oil and gas leasehold being devuction, enlargement, alteration, repair, removal ony surface owner or water purveyor who is known thousand five hundred feet of the center of the w (6) The operator of any natural gas storage field tenants in common or other co-owners of interest may serve the documents required upon the peright, article one, chapter eleven-a of this code. (Inotice to a landowner, unless the lien holder is the ovide the Well Site Safety Plan ("WSSP") to the as provided in section 15 of this rule.	land disturbance as (3) The coal owner, be underlain by one or eloped by the proposed or abandonment of any who to the applicant to ell pad which is used to within which the ests described in rson described in the 2) Notwithstanding any ne landowner. W. Va.
				☑ Well Plat Notice is hereby provided to:	
[7] S1	URFACE OWNER	(s)	/	COAL OWNER OR LESSEE	
	ne: Susan and Frank Stip			Name: Consol Energy	
	ress: 310 3rd Street			Address: 257 Technology Drive Suite 101	
- 3 - 3%	Dale, WV 26038		/	Canonsburg, PA 15317-6506	
_	ne: Phillip D. High	/	_	□ COAL OPERATOR	RECEIVED
	ress: 37 Aaronwoods C	ourt		Name:	Office of Oil and Gas
	eling, WV 26003			Address:	
		(s) (Road and/or Oth	har Disturbanca)	Addicss.	JUL 2 0 2022
-		Service and the service and th		SURFACE OWNER OF WATER WELL	
AJJ	ic.			# 	and the second second
Add				AND/OR WATER PURVEYOR(s)	WV Department of
Nr.				Name:	Environmental Protection
Nan	ie:			Address:	
Add	ress:			HODER LEGR OF ANNUATION IS CASE	TOP A CE FUEL D
	mn i on our re-	X A 17	min i	OPERATOR OF ANY NATURAL GAS S	
		(s) (Impoundments		Name:	
Nan	ie:			Address:	
Add	ress:				
				*Please attach additional forms if necessary	

OPERATOR WELL NO. Yocum MSH 206H

Well Pad Name: Youm MSH

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/gibely/FD and-gas/pages/default.aspx. Office of Oil and Gas

Well Location Restrictions

JUL 2 0 2022

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 largenus of the hund 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. Yocum MSH 206H

Well Pad Name: Yocum MSH

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 with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments with the secretary at:

Office of Oil and Gas

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

JUL 2 0 2022

WV Department of Environmental Protection

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

API NO. 47-009

OPERATOR WELL NO. YOCUM MSH 206H

Well Pad Name: Yocum MSH

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.

RECEIVED
Office of Oil and Gas

JUL 2 0 2022

API NO. 47-009 OPERATOR WELL NO. Yocum MSH 206H
Well Pad Name: Yocum MSH

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 deprivacyofficer@wv.gov.

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

Notary Public

My Commission Expires 8/21/2024

RECEIVED
Office of Oil and Gas

JUL 2 0 2022

OWNERNAME	ADDRESS	CITY/STATE/ZIP	PARCEL ID	WaterSources
GEDEON DANIEL D ET UX	6740 PARK RD	LEAVITTSBURG, OH 44430	07 26000600000000	34
VELLEKOOP PETER ET UX	220 CRYSTAL COVE RD	WALDOBORO, ME 04572	07 26000600020000	4
YOCUM MICHAEL DAVID ET AL	2001 4TH ST	MOUNDSVILLE, WV 26041	07 27000400010000	1
HIGH PHILIP D	37 AARON WOODS CT	WHEELING, WV 26003	07 27000800000000	1

RECEIVED
Office of Oil and Gas

JUL 2 0 2022

Notice Time R	Requirement: Notice shall be provided	at least SEVEN (7) days	but no more than FC	ORTY-FIVE (45) days prior to
entry Date of Notice	Date of Planned	Entry: 5/35/33		And the second s
Delivery meth	od pursuant to West Virginia Code {	§ 22-6A-10a		
☐ PERSON.	AL 🔳 REGISTERED [☐ METHOD OF DELI	ZERY THAT REOU	IRES A
SERVICE		RECEIPT OR SIGNA	•	The state of the s
on to the surface but no more that beneath such trowner of miner and Sediment C Secretary, whice enable the surface	est Virginia Code § 22-6A-10(a), Prior the tract to conduct any plat surveys require forty-five days prior to such entry to act that has filed a declaration pursuantals underlying such tract in the county Control Manual and the statutes and rules attement shall include contact infortion ace owner to obtain copies from the second control that the statutes are second control to the statutes and rules are such as the second control that	uired pursuant to this arti- o: (1) The surface owner to t to section thirty-six, arti- tax records. The notices es related to oil and gas e mation, including the add	Te. Such notice shall if such tract; (2) to an cle six, chapter twent shall include a statem xploration and produ	be provided at least seven days y owner or lessee of coal seams y-two of this code; and (3) any ent that copies of the state Erosion ction may be obtained from the
	oy provided to:			_
	E OWNER(s)	i	OWNER OR LESSE	E
Name: Joseph L.		Name: Blaze		
Address: 230 Cu			Folly Road, Suite P285	
Moundsville, WV 260		Charleston, SC 2	9412	
Name: Michael D.			47 000000000	
Address: 2001 4		2	AL OWNER(s)	
Moundsville, WV 260			oia Gas Transmission, LLC	
Name: Susan and		Address: 515	1 San Felipe, Suite 2500	
Address: 310 3rd		Houston, TX 7700		
Glen Dale, WV 26038		*please attach a	dditional forms if necessar	у
a plat survey or State:	eby given: st Virginia Code § 22-6A-10(a), notice the tract of land as follows: West Virginia Marshall	Approx. Latitud Public Road Ac Watershed:	e & Longitude: 39.7 cess: Amo	rator is planning entry to conduct 32795, -80.583668 is Hollow Road t-¥irginia Fork Fish Creek
	Littleton	Generally used		19
Copies of the st may be obtaine Charleston, WV	ate Erosion and Sediment Control Mar d from the Secretary, at the WV Depar / 25304 (304-926-0450). Copies of st he Secretary by visiting www.dep.wv.s	nual and the statutes and the statutes and the	ules related to oil and Protection headquarte nal information relate	l gas exploration and production rs, located at 601 57th Street, SE,
		Address:	000 Feet Blancout Be - 0 2 5	JUL 2 0 2022
. · · ·	SWN PRODUCTION COMPANY, LLC		300 Fort Pierpont Dr., Suite 2	30L 2 V 2022
Telephone:	304-884-1610		Aorgantown, WV 26508	WV Dep⊋rtment of
Email:	brittany_woody@swn.com	Facsimile:		Environmental Protection

Oil and Gas Privacy Notice:

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

WW-6A3 (1/12)

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

Notice Time R	Requirement: Notice shall be provided at lea	ast SEVEN (7) days but no more tha	n FORTY-FIVE (45) days prior to
entry Date of Notice	1 • •		
Delivery meth	od pursuant to West Virginia Code § 22-	6A-10a	
□ PERSON. SERVICE		METHOD OF DELIVERY THAT R ECEIPT OR SIGNATURE CONFIL	1 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-
on to the surface but no more that beneath such troowner of miner and Sediment C Secretary, whice enable the surface.	est Virginia Code § 22-6A-10(a), Prior to file tract to conduct any plat surveys required an forty-five days prior to such entry to: (1) act that has filed a declaration pursuant to scals underlying such tract in the county tax recontrol Manual and the statutes and rules rech statement shall include contact information ace owner to obtain copies from the secretar	pursuant to this article. Such notice The surface owner of such tract; (2) ection thirty-six, article six, chapter ecords. The notice shall include a stated to oil and gas exploration and pon, including the address for a web p	shall be provided at least seven days to any owner or lessee of coal seams twenty-two of this code; and (3) any atement that copies of the state Erosion production may be obtained from the
	oy provided to:	COAL OND TO OD IT	COORT /
SURFACE		COAL OWNER OR LI	
Name: Phillip D. H		Name: Consol Energy Attn: Casey S	
Address: 37 Aaro		Address: 275 Technology Drive, S	uite 101
Wheeling, WV 26003		Canonsburg, PA 15317-9565	
Name:	and the second s		
Address:		■ MINERAL OWNER(s)	
		Name: Karen Sue Franklin Marshall	
		Address: 1722 Rock Road	
Address:		Chambersburg, PA 17202	
		*please attach additional forms if n	ecessary
a plat survey on State: County: District:	eby given: st Virginia Code § 22-6A-10(a), notice is he the tract of land as follows: West Virginia Marshall Liberty	Approx. Latitude & Longitude: Public Road Access: Watershed:	39.732795, -80.583668 Amos Hollow Road West Virginia Fork Fish Creek
Quadrangle. <u>L</u>	Littleton	Generally used farm name:	Yocum
may be obtained Charleston, WV	tate Erosion and Sediment Control Manual and from the Secretary, at the WV Department 25304 (304-926-0450). Copies of such declary by visiting		

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.

09/16/2022

WW-6A3 (1/12)

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

Notice Time R	equirement: 1	Notice shall be provi	ded at least SEVEN	(7) day	ys but no more that	ı FORTY-FIV	E (45) day	s prior to
entry	,							
Date of Notice:	5/18/2022	Date of Plan	ned Entry: 5/25/2022			1	1	
Delivery metho	od pursuant t	o West Virginia Co	de § 22-6A-10a				3	
☐ PERSONA	A1.	REGISTERED	☐ METHOD C	F DEL	IVERY THAT RE	OUIRES A	•	8
SERVICE		MAIL		ä	ATURE CONFIR	- 1		
_								
on to the surface but no more that beneath such tra owner of minera and Sediment C Secretary, which	e tract to cond in forty-five da act that has file als underlying Control Manual h statement sh	de § 22-6A-10(a), Pruct any plat surveys ays prior to such entred a declaration purs such tract in the coul and the statutes and all include contact in the traction copies from the	required pursuant to y to: (1) The surfac- uant to section thirt- inty tax records. The I rules related to oil information, including	this are owner y-six, are notice and gas	ticle. Such notice s of such tract; (2) t ticle six, chapter to e shall include a state exploration and pr	shall be provide to any owner or wenty two of the tement that cop- roduction may be	ed at least so lessee of coins code; and one of the be obtained	even days coal seams d (3) any state Erosion I from the
Notice is hereb	y provided to	:						· !
	OUATED(.)			COA	OWNER OR LE	CCCC		
☐ SURFACE	, ,				-			
Name:				me:				
				dress:		1		
						<u></u>		
Address:				MINE	RAL OWNER(s)	. /		
			Na	me: Thor	mas Elwood Franklin			
					3 Ridgeway Drive			
Address:			Med	hanicburg,				
<u> </u>			*ple	ase attach	additional forms if neo	cessary		1
a plat survey on State: V County: N District: L	st Virginia Co	de § 22-6A-10(a), no nd as follows:	Appro Public Waters	x. Latitu Road A shed:	ide & Longitude:	operator is pla 39.732795, -80.583 Amos Hollow Road West Virginia Fork I Yocum	668	to conduct
							**	
may be obtained Charleston, WV obtained from the	d from the Sec / 25304 (304- he Secretary b	d Sediment Control cretary, at the WV Do 926-0450). Copies of y visiting www.dep	epartment of Enviro of such documents of	nmental r additi	l Protection headquonal information re	uarters, located	at 601 57" ntal drillin RE	Street, SE,
Notice is here	by given by:						11 11	9 A 2022
Well Operator:	SWN PRODUCTI	ON COMPANY, LLC	Add	ress:	1300 Fort Pierpont Dr., S	Suite 201	JUL	2 0 2022
Telephone:	304-884-1610			4	Morgantown, WV 26508			1
Email:	brittany_woody@s	swn.com	Facs	imile:			1	partment of intal Protection
Oil and Gas F The Office of O		ce: ocesses your persona	I information, such	as name	address and telen	ohone number.		

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(drawy gov.)

WW-6A3 (1/12)

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

Notice Time Re	quirement:]	Notice shall be provide	led at least SEVEN () da	ys but no more than	FORTY-FIVE	(45) days	prior to
entry								:
Date of Notice:	5/18/2022	Date of Plann	ed Entry: 5/25/2022					
Delivery metho	d pursuant t	o West Virginia Coo	le § 22-6A-10a					
☐ PERSONA		REGISTERED	☐ METHOD OF	DEL	IVERY THAT RE	QUIRES A		:
SERVICE	u.,	MAIL			ATURE CONFIRI			•
Pursuant to Wes on to the surface but no more than beneath such tra- owner of minera and Sediment Co Secretary, which	e tract to cond in forty-five do ct that has fil- ils underlying ontrol Manua in statement sh	luct any plat surveys a ays prior to such entry ed a declaration pursu s such tract in the cou	for to filing a permit a required pursuant to to to: (1) The surface count to section thirty-snty tax records. The rules related to oil an formation, including secretary.	nis an owne six, a notic	of such tract; (2) to ticle six, chapter to e shall include a sta exploration and pr	o any owner or leventy-two of this tement that copin that copin that copin may be seen that the copin that the	lessee of code; and es of the se obtained	oal seams 1 (3) any tate Erosion from the
Notice is hereby	y provided to):					1	
☐ SURFACE	OWNER(s)			COA	LOWNER OR LES	SSEE		
			Name					
			Addr	ess:			- 4	
Address.								
Name:						/		
					ERAL OWNER(s)			
			Name	: Th	se Rivers Royalty II, LLC			
Name:					9055 E. Mineral Cirvle, Suit	te 101		
Address:					O 80112 h additional forms if nec	200017/		
			*pieas	e attac	n additional forms it lies	ossai y		
a plat survey on State: W. County: M.	st Virginia Co the tract of la Vest Virginia Marshall	ode § 22-6A-10(a), no and as follows:	Approx. Public R Watersh	Lati oad	ude & Longitude:	operator is plan 39.732795, -80.5836 Amos Hollow Road West Virginia Fork F	68	to conduct
	lberty			. 5	ed farm name:	Yocum	1	
may be obtained Charleston, WV	ate Erosion and from the Sec. 25304 (304 he Secretary by	cretary, at the WV De-926-0450). Copies of the copy visiting www.dep	Manual and the statut epartment of Environt of such documents or wv gov/oil-and-gas/pa Addre	es ar nent addi ages/ ss:	d rules related to oi al Protection headquional information re	l and gas explor parters, located a elated to horizon	at 601 3 // ntal drilfiff Office of JUL WV De	Street, SE,
Oil and Gas F The Office of O	Privacy Not oil and Gas pr	ice: ocesses your persona	l information, such as	nan	ne, address and telep	ohone number, a	s part of	ur 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@wy gov.

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

Notice Time Date of Notice	Requirement: ce: 06/01/2022	Notice shall be provided Date Po	at least TEN (10) days prior to Sting 6 ermit Application Filed:	permit application.	
Delivery me	thod pursuant	to West Virginia Code §	22-6A-16(b)		
☐ HAND		CERTIFIED MAIL			
DELIVE	-	RETURN RECEIPT RE	OHESTED		
DELIVI	2K.1	KETOKN KECEIFT KE	QOESTED		
receipt reque drilling a hor of this subsec- subsection m	sted or hand del izontal well: P tion as of the da ay be waived in	livery, give the surface over ovided, That notice give ate the notice was provided writing by the surface over	lays prior to filing a permit application, when notice of its intent to enter upon the pursuant to subsection (a), section tend to the surface owner. Provided, how when. The notice, if required, shall included address of the operator and the operator	ne surface owner's land on of this article satisficever. That the notice rude the name, address.	d for the purpose of es the requirements requirements of this telephone number,
		d to the SURFACE O			
	D. High	/	Name:		_
Address: 37 A	aronwoods Court ling, WV 26003		Address:		_
the surface or State:			e is hereby given that the undersigned norizontal well on the tract of land as fo UTM NAD 83 Easting: Northing:		michi to ditor apon
County:	-		Northing:		
District:	Littleton, WV		Public Road Access:	Amos Hollow Rd. Yocum MSH	
Quadrangle: Watershed:	Upper Ohio South		Generally used farm name:	YOCUM WISH	
watersned:	Opper Onio South				
Pursuant to 'facsimile nur related to hor	nber and electrizontal drilling	Code § 22-6A-16(b), this conic mail address of the may be obtained from the	s notice shall include the name, address operator and the operator's authorize the Secretary, at the WV Department of (304-926-0450) or by visiting www de-	d representative. Add f Environmental Prote	litional information ection headquarters,
Notice is he	reby given by	<i>7</i> :			
Well Operato		on Company, LLC	Authorized Representative:	Justin Booth	RECEIVED
Address:	1300 Fort Pierr	oont Drive, Suite 201	Address:	1300 Fort Pierpont Drive,	Suite 201 Oil and Gas
	Morgantown, W	V 26508		Morgantown, WV 26508	Mary Services
Telephone:	304-884-1675		Telephone:	304-884-1675	JUL 2 0 2022
Email:	Justin_Booth@	Swn.com	Email:	Justin_Booth@swn.com	1407 / 15
Facsimile:			Facsimile:	Fn	WV Department of vironmental Protection
	12-4-6				Protection

Oil and Gas Privacy Notice:

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

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

Notice Time Date of Notic	Requirement: Notice shall be provided a ee: 06/01/2022 Date Pe	nt least TEN (10) days prior to filing a rmit Application Filed:	permit application.	
Delivery met	hod pursuant to West Virginia Code §	22-6A-16(b)		
☐ HAND	■ CERTIFIED MAIL			
DELIVE		OUESTED		
receipt request drilling a hore of this subsect subsection mand if availab	V. Va. Code § 22-6A-16(b), at least ten de sted or hand delivery, give the surface ow izontal well: <i>Provided</i> , That notice giver tion as of the date the notice was provide ay be waived in writing by the surface ow le, facsimile number and electronic mail are provided to the SURFACE ON	mer notice of its intent to enter upon the pursuant to subsection (a), section tend to the surface owner: <i>Provided</i> , however. The notice, if required, shall included address of the operator and the operator	ne surface owner's land on of this article satisfient ovever, That the notice re ude the name, address,	for the purpose of s the requirements equirements of this telephone number,
	and Frank Stipetich	Name:		_
Address: 310		Address:		_
Glen	Dale, WV 26083			-
the surface or State: County:	Vest Virginia Code § 22-6A-16(b), notice wher's land for the purpose of drilling a highest Virginia Marshall	orizontal well on the tract of land as for Easting: Northing: Public Road Access:	bllows: 535,657.52 4,398,185.59 Amos Hollow Rd.	
District:	Littleton, WV	Generally used farm name:	Yocum MSH	
Quadrangle: Watershed:	Upper Ohio South	Generally used farm fiame.	T OCCUPIT MOTO	
Pursuant to 'facsimile nur related to ho	Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the rizontal drilling may be obtained from the 1 57 th Street, SE, Charleston, WV 25304	operator and the operator's authorize the Secretary, at the WV Department of	ed representative. Addition of Environmental Protection	tional information ction headquarters,
Notice is he	ereby given by:			
	SWN Production Company, LLC	Authorized Representative:	Justin Booth	RECEIVED
Address:	1300 Fort Pierpont Drive, Suite 201	Address:	1300 Fort Pierpont Drive,	Suile 200e of Oil and Gas
	Morgantown, WV 26508		Morgantown, WV 26508	
Telephone:	304-884-1675	Telephone:	304-884-1675	JUL 2 0 2022
Email:	Justin Booth@swn.com	Email:	Justin_Booth@swn.com	
Facsimile:		Facsimile:	-	WV Department of
				nvironmental Protection

Oil and Gas Privacy Notice:

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

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 is he Well Operate Address: Telephone: Email: Facsimile:	1300 Fort Pierpont Drive, Suite 201 Morgantown, WV 26508 304-884-1675 Justin Booth@swn.com	Telephone: Email: Facsimile:	Morgantown, WV 26508 304-884-1675 Justin_Booth@swn.com	JUL 2 0 2022 WV Department of
Well Operato Address: Telephone:	Morgantown, WV 26508 304-884-1675	Telephone;	Morgantown, WV 26508 304-884-1675	on and Gas
Well Operato Address:	Morgantown, WV 26508		Morgantown, WV 26508	on and Gas
Well Operato		Address:		filee of Oil and Gas
Well Operato	1300 Fort Pierpont Drive, Suite 201	Address		ulie 201
			1300 Fort Pierpont Drive, S	RECEIVED
Notice is he		Authorized Representative:	Justin Booth	
Pursuant to 'facsimile nur	Marshall Liberty Littleton, WV Upper Ohio South Shall Include: West Virginia Code § 22-6A-16(b), the observant of the fizontal drilling may be obtained from the street, SE, Charleston, WV 25304 reby given by: SWN Production Company, LLC	Public Road Access: Generally used farm name; is notice shall include the name, address operator and the operator's authorize the Secretary, at the WV Department of (304-926-0450) or by visiting www.de	ed representative. Addi- of Environmental Protection www.mov/orl-and-ms/n	tional information tion headquarters,
Pursuant to V	reby given: Vest Virginia Code § 22-6A-16(b), notice wher's land for the purpose of drilling a West Virginia	horizontal well on the tract of land as for Easting:		ntent to enter upon
	dsville, WV 26041	2.10(1) 0.501		
	reby provided to the SURFACE O	WNER(s): Name: Address:		_
receipt reque drilling a hor of this subsection mand if availab	Va. Code § 22-6A-16(b), at least ten of sted or hand delivery, give the surface of izontal well: <i>Provided</i> , That notice give tion as of the date the notice was providing by the surface of le, facsimile number and electronic mail	wner notice of its intent to enter upon the pursuant to subsection (a), section to led to the surface owner: <i>Provided, how</i> wner. The notice, if required, shall included address of the operator and the operator	he surface owner's land en of this article satisfies vever, That the notice re lude the name, address,	for the purpose of s the requirements equirements of this telephone number,
DELIVE	RY RETURN RECEIPT R	EQUESTED		
☐ HAND	CERTIFIED MAIL			
	hod pursuant to West Virginia Code	§ 22-6A-16(b)		
Delivery met				
Date of Notic		ermit Application Filed:		

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.

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.

	Time Require		least TEN (10) days prior to filing a mit Application Filed:	permit application.	
Deliver	y method pur	rsuant to West Virginia Code § 2	2-6A-16(b)		
	AND	CERTIFIED MAIL			
	LIVERY	RETURN RECEIPT REQ	TESTED		
DE	LIVERI	RETORN RECEIFT REQ	OESTED		
receipt in drilling of this s subsection and if a	requested or has a horizontal valuesection as constant on may be wavailable, facsing	and delivery, give the surface own vell: Provided, That notice given of the date the notice was provided lived in writing by the surface own	es prior to filing a permit application, ner notice of its intent to enter upon the pursuant to subsection (a), section te to the surface owner: <i>Provided</i> , how- ner. The notice, if required, shall includes of the operator and the operator	te surface owner's land of this article satistice satistice of the satistic satistic satistic satisfies and the satisfies of the satisfies satisfies and satisfies satisfies and satisfies	and for the purpose of fies the requirements requirements of this ss, telephone number,
Name:	Michael D. Yocur		Name:		
	2001 4th Street		Address:		
1 100,000	Moundsville, WV	26041	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
State: County: District:	-	ginia	UTM NAD 83 Easting: Northing: Public Road Access:	535,657.52 4,398,185.59 Amos Hollow Rd.	
Quadrai		WV	Generally used farm name:	Yocum MSH	
Watersh		nio South	Contentity used turn nume.	(January)	
Pursuan facsimil related	e number and to horizontal	rginia Code § 22-6A-16(b), this delectronic mail address of the of drilling may be obtained from the	notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of 304-926-0450) or by visiting www.de	ed representative. A f Environmental Pro	dditional information tection headquarters,
	is hereby gi	ven by:			
Well Op	perator; swn	Production Company, LLC	Authorized Representative:	Justin Booth	RECUME
Address	1300	Fort Pierpont Drive, Suite 201	Address	1300 Fort Pierpont Dri	ve Suite 201 EIVED
		ntown, WV 26508		Morgantown, WV 2650	
Telepho	one: 304-8	84-1675	Telephone:	304-884-1675	JUI 2 0 2022
Email:	Justin	Booth@swn.com	Email:	Justin Booth@swn.co	m 2022
Facsimi	le:		Facsimile:	WV Department of	
				E	vironmental Protection
0"	i Car Balan	AT-At-			- ToteCilor

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.

Notice T Date of I		equirement: notice shall l		o later than the filing pplication Filed:	date of germit	application.
Delivery	metho	d pursuant to West Virg	ginia Code § :	22-6A-16(c)		
■ CE	RTIFII	ED MAIL		HAND		
		RECEIPT REQUESTED)	DELIVERY		
Pursuant return return return return return return return required drilling of damages (d) The rof notice is (at the ac Name: _Address:	to W. ceipt remed ope to be pof a hortothe contices hereby the policy of the contices of the c	Va. Code § 22-6A-16(c), equested or hand delivery, eration. The notice required by subsection (b), rizontal well; and (3) A paragraph of the surface affected by oil and required by this section slave provided to the SURF, isted in the records of the High mycods Court and well; ww 26003 y given: st Virginia Code § 22-6A-	no later than give the surfared by this say, section ten oproposed surfal gas operationall be given to section the section ten of the section ten operation and the section ten operation and the section ten operation to the section ten operation to the section ten operation to the section ten operation ten ope	the date for filing ace owner whose lar ubsection shall include the first article to a surface use and compered to the surface owner of the surface owner (s) R(s) time of notice): Name: Addressis hereby given that	d will be used for the comparison of the comparison agreement amages are compared the address like the undersigned	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 isted in the records of the sheriff at the time well operator has developed a planned
operation State:		e surface owner's land for Vest Virginia	the purpose of		Faction	act of land as follows: 535,657.52
County:	-	Marshall		- UTM NAD	Northing:	4,398,185.59
District:	-	iberty		Public Road		Amos Hollow Rd.
Quadran	-	ittleton, WV			sed farm name:	Yocum MSH
Watersh	ed: u	pper Ohio South				
Pursuant to be pro horizonta surface a informat	to Westovided al well; affected ion relaters, le	by W. Va. Code § 22-6 and (3) A proposed surfa by oil and gas operation ated to horizontal drilling ocated at 601 57 th Street	A-10(b) to a since use and constant to the external may be obta	surface owner whose empensation agreem at the damages are callined from the Secre-	e land will be ent containing a compensable und etary, 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 www.dep.wv.gov/oil-and-department
Well Ope	erator	SWN Production Company, LLC		Address:	1300 Fort Pierpont	Drive Suite 201
Telephor		304-884-1675		71001033.	Morgantown, WV 2	
Email:		Justin_Booth@swn.com		Facsimile		
Oil and	ce of O	ivacy Notice: il and Gas processes your		rmation, such as na	me, address and	telephone number, as part of our regulatory

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.

JUL 2 0 2022

Office of Oil and Gas

WW-6A5 (1/12)

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

Notice Time Date of Notic		rided no later than the filing date of permit a rmit Application Filed:	pplication.
Delivery me	thod pursuant to West Virginia (Code § 22-6A-16(c)	
■ CERTI	FIED MAIL	☐ HAND	
RETU	RN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a damages to tl (d) The notice of notice. Notice is her	t requested or hand delivery, give to operation. The notice required by e provided by subsection (b), section horizontal well; and (3) A propose the surface affected by oil and gas of		the drilling of a horizontal well notice of of this code section; (2) The information land will be used in conjunction with the containing an offer of compensation for ensable under article six-b of this chapter.
Name: Susar	and Frank Stipetich	Name:	
Address: 310	3rd Street Dale, WV 26083	Address:	
	Vest Virginia Code § 22-6A-16(c),	notice is hereby given that the undersigned w irpose of drilling a horizontal well on the trace UTM NAD 83	
County:	Marshall	VIM NAD 83 Northing:	4,398,185.59
District:	Liberty		Amos Hollow Rd.
Quadrangle: Watershed:	Littleton, WV	Generally used farm name:	Yocum MSH
This Notice S Pursuant to V to be provide horizontal we	ed by W. Va. Code § 22-6A-10(bell; and (3) A proposed surface use	this notice shall include: (1)A copy of this copy to a surface owner whose land will be us and compensation agreement containing an	sed in conjunction with the drilling of a offer of compensation for damages to the
information i	elated to horizontal drilling may	be extent the damages are compensable under the obtained from the Secretary, at the WV I Charleston, WV 25304 (304-926-0450) of	Department of Environmental Protection

Oil and Gas Privacy Notice:

SWN Production Company, LLC

Justin Booth@swn.com

304-884-1675

gas/pages/default.aspx.

Well Operator:

Telephone:

Email:

Environmental Protection 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.

Address:

Facsimile:

1300 Fort Pierpont Drive, Suite 201

Morgantown, WV 26508

304-884-1675

RECEIVED Office of Oil and Gas

WV Department of

WW-6A5 (1/12)

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

Deliv	ery metho	od pursuant to West Virginia C	Code §	22-6A-16(c)		
	CERTIE	ED MAIL		HAND		
		RECEIPT REQUESTED		DELIVERY		
return the p requidrillindama (d) T of no	n receipt re lanned op- red to be p ng of a ho ges to the he notices tice.	equested or hand delivery, give the eration. The notice required by provided by subsection (b), section prizontal well; and (3) A propose surface affected by oil and gas of	he surfa this son ten co ed surf peration given	ace owner whose land ubsection shall inclu- if this article to a surf- ace use and compens ins to the extent the da to the surface owner a	I will be used for de: (1) A copy ace owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	e address l	listed in the records of the sheriff		time of notice):		
Name	v.	L. Yocum	1	Name:		
Addr	ess: 230 Cur	rtis Avenue	-	Address	5	
				Addies	-	
Notic Pursi	Moundsvee is hereb	y given: st Virginia Code § 22-6A-16(c),		is hereby given that t	ne undersigned	well operator has developed a planned
Notice Pursu opera State Coun	Moundsv ce is hereb ant to We ation on th	by given:		is hereby given that t	ne undersigned I well on the tra Easting: Northing:	
Notice Pursu opera State Coun Distr	Moundsv ce is herebuant to Westion on the control of the control	by given: st Virginia Code § 22-6A-16(c), se surface owner's land for the pu West Virginia Marshall		is hereby given that the following a horizonta UTM NAD 8 Public Road	ne undersigned I well on the tra Easting: Northing:	act of land as follows: 535,657.52 4,398,185.59
Notice Pursu opera State Coun Distr Quad	Moundsv ce is hereb uant to We ution on the ty: ty: trangle:	by given: st Virginia Code § 22-6A-16(c), se surface owner's land for the pu West Virginia Marshall Liberty		is hereby given that the following a horizonta UTM NAD 8 Public Road	ne undersigned I well on the tra Easting: Northing:	act of land as follows: 535,657.52 4,398,185.59 Amos Hollow Rd.
Notice Pursu opera State Coun Distr Quad Wate This Pursu to be horiz surfa inform	Moundsv re is herebuant to We the tion on the the transle: I rangle: I rangle: Notice Shuant to We provided ontal well; ce affected mation religions.	by given: st Virginia Code § 22-6A-16(c), the surface owner's land for the put West Virginia Marshall Liberty Littleton, WV Litper Ohio South all Include: st Virginia Code § 22-6A-16(c), by W. Va. Code § 22-6A-10(b); and (3) A proposed surface used by oil and gas operations to the ated to horizontal drilling may ocated at 601 57th Street, SE,	this no) to a and co ie exter	is hereby given that the farilling a horizontal UTM NAD 8 Public Road Generally use of the shall include: (1) surface owner whose ompensation agreement the damages are contined from the Secretal property of the damages are contined from the secretal property of the damages are contined from the secretal property of the damages are contined from the secretal property of the damages are contined from the secretal property of the damages are contined from the secretal property of the damages are contined from the secretal property of the damages are contine	ne undersigned I well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be int containing and impensable understay, at the WV	act of land as follows: 535,657.52 4,398,185.59 Amos Hollow Rd.
Notice Pursu opera State Coun Distr Quad Wate This Pursu to be horiz surfa inform heade gas/p	Moundsv re is hereb uant to We tion on the ty: Ity: Irangle: Irangle:	by given: st Virginia Code § 22-6A-16(c), the surface owner's land for the property of the pro	this no) to a and co ie exter	is hereby given that the of drilling a horizontal UTM NAD 8 Public Road Generally use of the surface owner whose ompensation agreement the damages are contined from the Secret leston, WV 25304	ne undersigned I well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be int containing an ompensable underly, at the WV (304-926-0450)	act of land as follows: 535,657.52 4,398,185.59 Amos Hollow Rd. Yocum MSH code section; (2) The information required used in conjunction with the drilling of a moffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Notice Pursu opera State Cound Distr Quad Wate This Pursu to be horiz surfa inforn heade gas/p	Moundsv re is herebuant to We thion on the thin	by given: st Virginia Code § 22-6A-16(c), the surface owner's land for the put West Virginia Marshall Liberty Littleton, WV Upper Ohio South all Include: st Virginia Code § 22-6A-16(c), by W. Va. Code § 22-6A-10(b); and (3) A proposed surface used by oil and gas operations to the ated to horizontal drilling may ocated at 601 57th Street, SE, ilt.aspx. SWN Production Company, LLC	this no) to a and co ie exter	is hereby given that the farilling a horizontal UTM NAD 8 Public Road Generally use of the shall include: (1) surface owner whose ompensation agreement the damages are contined from the Secretal property of the damages are contined from the secretal property of the damages are contined from the secretal property of the damages are contined from the secretal property of the damages are contined from the secretal property of the damages are contined from the secretal property of the damages are contined from the secretal property of the damages are contine	ne undersigned I well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be int containing an impensable underly, at the WV (304-926-0450)	act of land as follows: 535,657.52 4,398,185.59 Amos Hollow Rd. Yocum MSH code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-Drive, Suite 201
Notice Pursu opera State Coun Distr Quad Wate This Pursu to be horiz surfa infon heade gas/p	Moundsv re is hereb unt to We tion on the ty: ty: Introduct Introduct Notice Sh unt to We provided ontal well; ce affected mation reliquarters, le ages/defau Operator: ohone:	by given: st Virginia Code § 22-6A-16(c), the surface owner's land for the property of the pro	this no) to a and co ie exter	is hereby given that the of drilling a horizontal UTM NAD 8 Public Road Generally use of the surface owner whose ompensation agreement the damages are contined from the Secret leston, WV 25304	ne undersigned I well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be int containing an ompensable underly, at the WV (304-926-0450)	act of land as follows: 535,657.52 4,398,185.59 Amos Hollow Rd. Yocum MSH code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-Drive, Suite 201

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

JUL 2 0 2022

WW-6A5 (1/12)

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

	ice: 06/01/2022 Date Po		pplication Filed:	date of permit	application.
Delivery me	thod pursuant to West Virginia	Code §	22-6A-16(c)		
CERT	IFIED MAIL		HAND		
	RN RECEIPT REQUESTED		DELIVERY		
return receip the planned required to be drilling of a damages to t (d) The notice	or requested or hand delivery, give operation. The notice required be provided by subsection (b), section horizontal well; and (3) A propo- the surface affected by oil and gas	the surfa by this si ion ten o sed surfa operation e given t	ace owner whose land ubsection shall inclu- of this article to a surf- ace use and compens as to the extent the da to the surface owner a	I will be used for de: (1) A copy ace owner whose ation agreement mages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	ss listed in the records of the sheri				
S. Jacobs de .	nael D. Yocum		Name:		
Address: 200			Address	S	
Mour	ndsville, WV 26041	_			
State: County: District:	the surface owner's land for the p West Virginia Marshall Liberty	ourpose o	UTM NAD 8	Easting: Northing:	535,657.52 4,398,185.59 Amos Hollow Rd.
Quadrangle:	Littleton, WV		Generally use	ed farm name:	Yocum MSH
Watershed:	Upper Ohio South				
Pursuant to 'to be provide horizontal wasurface affectinformation'	led by W. Va. Code § 22-6A-10(rell; and (3) A proposed surface us ted by oil and gas operations to t related to horizontal drilling may by located at 601 57th Street, SE,	b) to a : e and co he exter be obta	surface owner whose empensation agreement the damages are co- tined from the Secret	land will be a nt containing ar empensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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
JUL 2 0 2022

WV Department of Environmental Proof 16/2022



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

May 31, 2022

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 Yocum Pad, Marshall County Yocum MSH 206H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0157 which has been issued to Southwestern Energy for access to the State Road for a well site located off Marshall County Route 89 SLS MP 2.15.

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 Maintenance Engineer Central Office O&G Coordinator

Jany K. Clayton

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

RECEIVED
Office of Oil and Gas
JUL 2 0 2022

Attachment VI Frac Additives

Broduct Name	Dengues Hee	Chambrel Name	CAS Number
Product Name AI-303 (U.S. Well Services)	Product Use Mixture	Chemical Name Ethylene glycol	107-21 1
til son form stell nei steen)	//Univers	Cinnamaldehyde	104-55 2
		Butyl cellosolve	111-76 2
		Formic acid	64-18 6
		Polyether	Proprietary
-		Acetophenone, thiourea, formaldehyde polymer	68527-49 1
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
			111-30-8
actron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-0
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
actron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
		Command Association Command State of Allerth Chloridge	50424.05.4
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
rboNRT	Tracer	Ceramic Proppant	66402-68-4
6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
ono-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
opol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
-S1176-15 (Halliburton)	Friction Reducer	Polyacylate	Proprietary
		Hydrotreated light petroleum distillate	64742-47-8
JET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
JET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
			64742-47-8
'6 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate Inorganic Salt	
TROUT SON (S)	end at the co		Proprietary
TRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
_ (SWN Well Services)	Hydrocholic Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
55 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
I-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
kslick 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 RECEIVED	93-83-4
		Ammonium Chloride Office of Oil and Gas	12125-02-9
slick 953	Friction Reducer	Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride JUL 2 0 2022	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
slick 957	Friction Reducer	Petroleum Distillate	64742-47-8
		Ammonium Chloride WV Department of	12125-02-9
		Oleic Acid Diethanolamide Environmental Protection	93-83-4
		Alcohols, C12-16, Exoxylated	68551-12-2
		Water	7732-15-5
RA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
		Propenoic acid, polymer with propenamide	9003-06 9
aid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
slick 922	no data available	Copolymer of 2-propenaminde	69418-26-4
		Distillates (petroleum), hydotreated light	64742-47-8
		Ammonium chloride ((NH4)CI)	12125-02-9
		Oleic Acid Diethnolamide	93-83-4
Icide PS50A	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
2004 5170	Branas	Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	
		groups	397256-50-7
-2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Ethoxylated alcohol	Proprietary
			TO A STATE OF THE PARTY.
ALD DEPART	* 10 ***	Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched	69011-36-5
end LD-7750W	Scale Control	Methanol	67-56-1
		Phosphonic Acid Salt	Proprietary
MX 8-4743	Specialty Product	Sodium Nitrate	7631-99-409/

MARSHALL COUNTY, WY HIGHWAY MAP PROJECT LOCATION LOCATION



HIGHWAY MAP SCALE

ONE CALL UTILITY SYSTEM CONTACT INFO



CONTRACTOR SHALL NOTIFY THE ONE-CALL SYSTEM OF THE INTENDED EXCAVATION OR DEMOLITION NOT LESS THAN FORTY-FIGHT (48) HOURS, EXCLUSING SATURDAYS, SIDNOYS AND LOGAL FEDERAL OR STATE HOLIDAYS, NOR MORE THAN TEN (10) WORK DAYS PRIOR TO THE BEGINNING OF SIXCH WORK

THE INFORMATION CONTAINED HEREIN IS THE SQLE PROPERTY OF THE THRESHER DROUP INC. REPRODUCTION OF THESE DOCUMENTS IN WHOLE ON IN PART, FOR HEY PRESON WITHOUT PRICE ARTICLE PREVIOUS IN STREETLY PROHIBITED. THE THRESHER REQUIRED.

AS-BUILT PLANS FOR YOCUM WELL PAD AND ACCESS ROAD LIBERTY DISTRICT, MARSHALL COUNTY, WV **FEBRUARY 2019**

TOPHOLE COORDINATES

Well Number	WV83-N Latitude	WVIII-W Longitude	Northing	UTM 83-17 facting
205H	N 39.732964"	W 80.583491"	14429769,221 lt	1757513.640 (
3H	N 39.732946*	W 80.583518*	14429762,709 ft.	1757506.049 /1
3H	N 39.732929°	W 80.583545*	14429756 199 ft	1757498.460 ft
1H -	N 39.732911*	W 80.583572"	14429749.720 ft	1757490.871 ft
SLOT 5	N 39.732893*	W 80:583600"	14429743.189 ft	1757483.283 ft
SLOT 6	N 39.732875*	W 80.583627*	14429735.678 ft	1757475.694 h
SLOT 7	N 39.732857*	W 80.583654*	16429730.173 ft	1757468.105 ft
S.01.8	N 39.732840*	W 80.583681*	14429723.667 ft	1757460.516 ft
SLOT 9	N 39.732822*	W 80.583708*	14429717.157 ft	1757452.928 ft
51:0T 10	N 39.732804*	W 80.583735*	14429710 651 ft	1757445.339 #
SLOT 11	N 39.732786*	W 80.583762*	14429704-145 ft	1757437.750 f
5LOT 12	N 39.732769*	W 80.583789*	14429697.636 ft	1757430.161 f
SLOT 13	N 39.732751*	W 80.583816*	14429691.130 ft	1757422.572 f
SLOT 14	N 39.732733*	W 80.583843*	14429684 620 ft	1757414.983 (
SIOT 15	N 39.732715*	W 80.583871*	14429678.115 ft	1757407.394 ft
SLOT 16	N 39.732697*	W 80.583898*	14429671.609 ft	1757399.805 (
SLOT 17	N 39.732748*	W 90.583953°	14429689,823 ft	1757384.188 #
SLOT 18	N 39.732765*	W 80.583926*	14429696.329 ft	1757391.776 f
SLOT 19	N 39.732783*	W 80.583899*	14429702.835 ft	1757399.365 F
SLOT 20	N 39.732801*	W 80.583872*	14429709.344 ft	1757406.954 ft
SLOT 21	N 39.732819*	W 80.583845*	14429715.850 ft	1757414.543 h
SLDT 22	N 39.732837*	W 80.583817*	14429722.356 ft	1757422.132 F
SLOT 23	N 39.732854*	W 80.583790*	14429728.866 ft	1757429.7211
SLOT 24	N 39.732872*	W 80.583763*	14429735,371 ft	1757437,3101
SLOT 25	N 39,732890°	W 80.583736*	14429741.877 ft	1757444.8981
SLOT 26	N 39,732908*	W 90 583709*	14429748.387 ft	1757452.487 /
SLOT 27	N 39.732925"	W 80.583682*	14429754.893 R	1757460.0761
SLOT 28	N 39,732943*	W 80.583655*	14429761.399 ft	1757467.665 f
SLOT 29	N 39,732961*	W 80.583628*	14429767.908 ht	1757475.2541
SLOT 30	N 39.732979*	W 80.583601*	14429774.414 ft	1757482.845 f
SLOT 31	N 39.732997*	W 80.583574"	14429780.920 ft	1757490,4341
SLOT 32	N 39,733014*	W 80.583546*	14429787.43D ft	1757498.0231

DISTURBANCE SUMMARY

Property Owner (Tax Map / Parcel)	Access Road Disturbasce	Well Pad Disturbance	Total Disturbance
Yocum Joseph Lee & Michael D (25-7-26-9)	7.94	16.57	19.91
Yocum Joseph Lee & Michael D (25-7-27-4)	7.66	0.00	7.66
rocum Joseph Lee & Michael D (25-7-27-5)	0.25	0.00	0.25
(25-7-27-8)	011	0.00	011
Total Disturbance	10.96	16.97	27.91

SITE COORDINATES

Coordinate Label	Well Pad Canter	Access Road Beginning	AST Center
WVE3-N Latitude	N 39,732854"	N 39.729937	N 39.733899*
WVX3-N Longitude	W 80.583723*	W 80.584823"	W 80.585613"
WV83-N Northing	450881.231 ft	449822.466 ft	451258.087 ft
WV83-N Desting	1663725.923 h	1663403.685 ft	1663199:057 ft
UTM 83-17 Northing	14429728.998 ft	14428665.345 ft	14430106.875 H
UTM 83-17 Easting	1757448.620 ft	1757144,214 ft	1756915.538 ft
UTM 83-17 Northing	4398190.195 m	4397865.993 m	4358305.372 m
UTM 53-17 Easting	535671.411 m	535578.628 m	535508 927 m

WELLS

WELL HAME	API NUMBER	CHLAR	DEPTH	COLLAR MATERIAL
PERMITTED YOCUM MISH SH	051-02024	10.	10	HOST SALIES
PERMITTED VOCUM MISH 3H	053-02124	16'	10"	CELLAR TECH
PERMITTED TOCUM MSG 205H	051-02125	10"	10	CELLAR TECH
PERMITTED YOCUM MISH TH	051-02133	10"	10	CELIAR TECH

DRIVING DIRECTIONS FROM CAMERON, WV

FROM DOWNTOWN CAMERON 3-WAY STOP

1. HEAD SOUTH ON WILEY (161-FT)

2. TURN LEFT ONTO US-250 s / MAPILE AVE (X-4-mi)

3. TURN RIGHT ONTO AMOS HOLLOW RIJ (2-0-mi)

4. DESTINATION WILL BE ON THE RIGHT.

SHEET INDEV

		SHEET INDEX	_
	SHEET	DESCRIPTION	Ξ
		TITLE SHEET	
	2 - 3	EVACUATION PLAN & PREVAILING WIND	
	A	AS-BUILT OVERALL SITE PLAN	
	5-8	AS-BUILT ACCESS ROAD PLAN & PROFILE	
	9	AS-BUILT WELL PAD PLAN	
	10	AS-BUILT WELL PAD SECTIONS	
	RI	SLIP REPAIR OVERALL	
10.0	R2	SLIP REPAIR SITE PLAN	
- 10.5	R3	AST PLAN	
=	R4	AST PAD SECTIONS	
/EV	R5-R14	ACCESS ROAD SECTIONS	
	R15	AST AR PROFILE	
	DI-D6	DETAILS	
	D7-D8	GENERAL NOTES	

I hereby certify that I am a licensed engineer in the state of West Virginia. This As-Built certifies, to the best of my knowledge, information and belief; the Well Pad constructed by Burns Drilling & Excavation, in Marshall County, WV on behalf of SWN Production Company, LLC, has been constructed in general conformance to the plans and specification and, in my professional opinion, is in compliance with applicable laws, codes, and ordinances.





APPROVED FOR CONSTRUCTION DATE: 8/6/18

REVISION NUMBER	REVISED SHEETS	BY	DATE	DESCRIPTION
0.0	1,4,8,R1-R8 & D1-D7	JCA & JRP	09/19/19	ADDED SUP REPAIR PLANS & DETAILS
- 2	R1-R3, R15 & D7-08	JCA	09/25/19	REVISED PER DEP CONVENTS



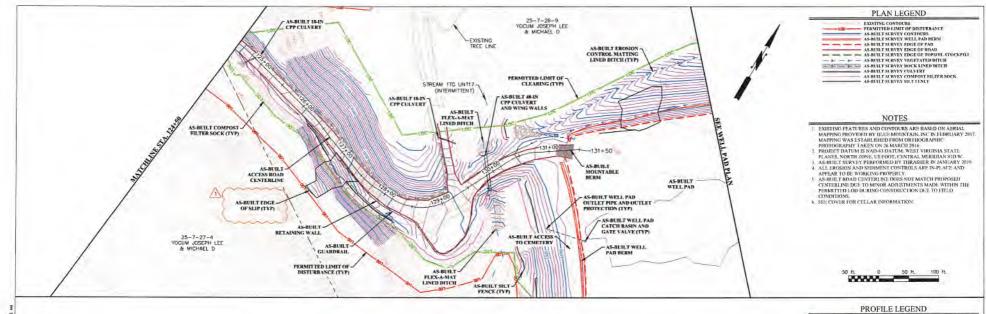




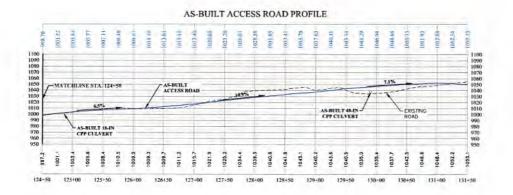


SWN PRODUCTION COMPANY, LLC 179 Insusation Drive Jane Lew, WV 26378 (304) 884-1610





AS-BUILT CULVERT



APPROVED MODIFICATION WVDEP OOG 10 / 7 / 2019

> VERT, o HOR.

HEREN IS THE SOLE PROPERTY OF THE THRASHER GROUP, NC. REPRODUCTION OF THESE DOCUMENTS IN WHOLE OR IN PART.					_		
FOR ANY REASON WITHOUT PRIOR WRITTEN PERWISSION, IS STRICTLY PROHIBITED, COPYRIGHT 0 2019	-	mo	09/19/19	Annen	nn	ar man	
THE THRESHER GROUP, NO.	NO.	BY	DATE	AUCKO	26 %	AS-BUIL!	



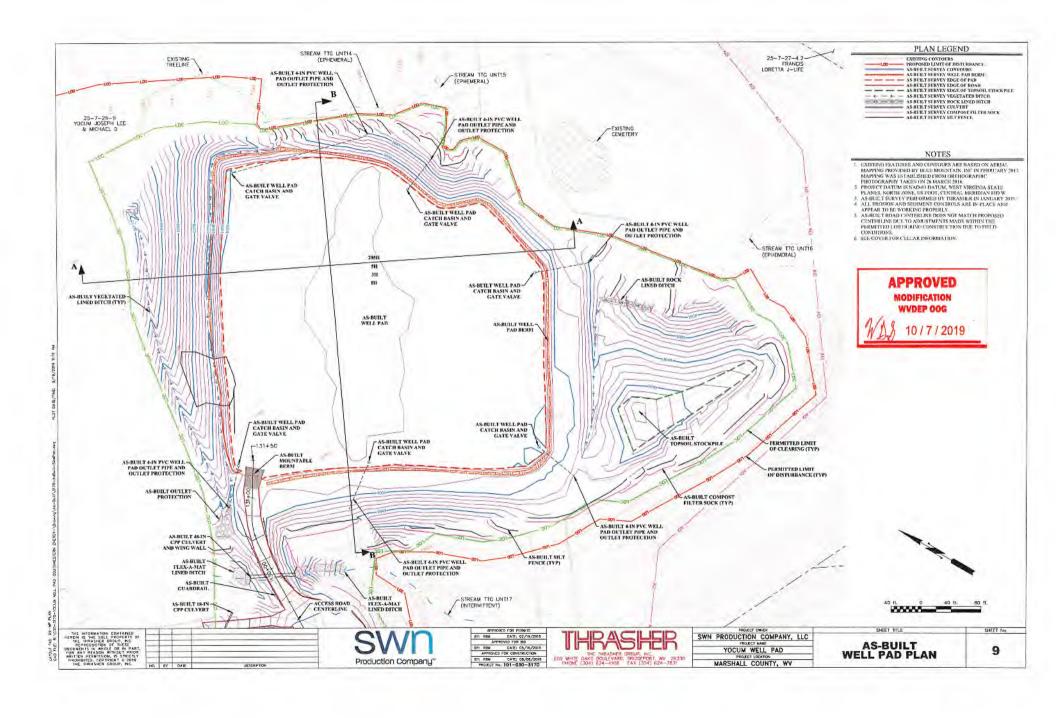


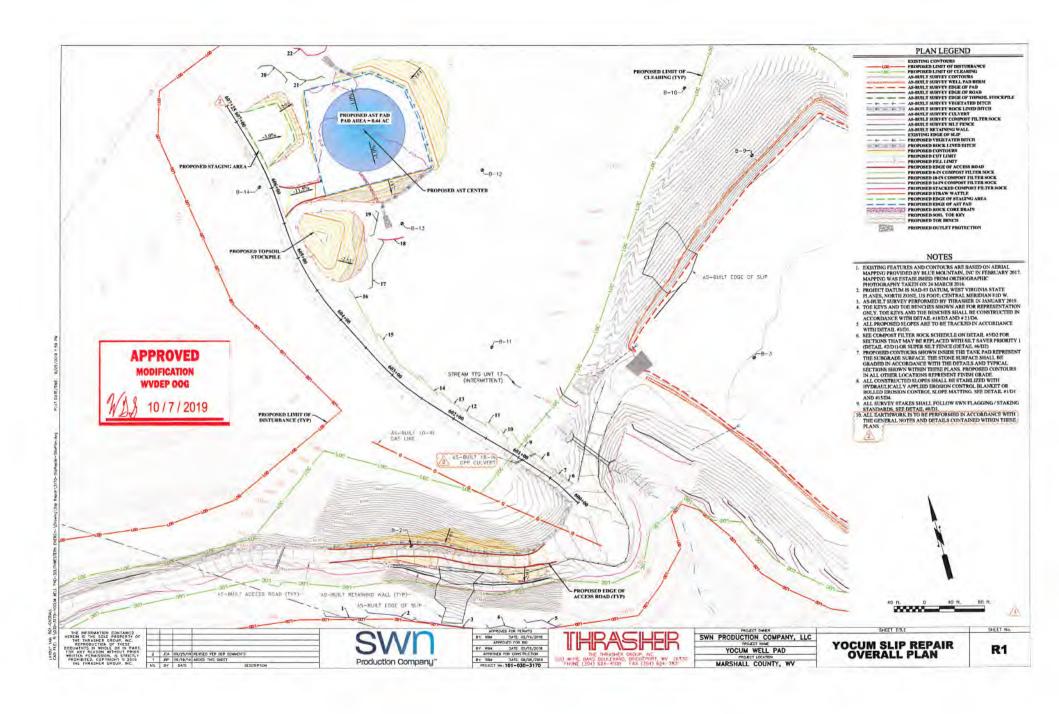


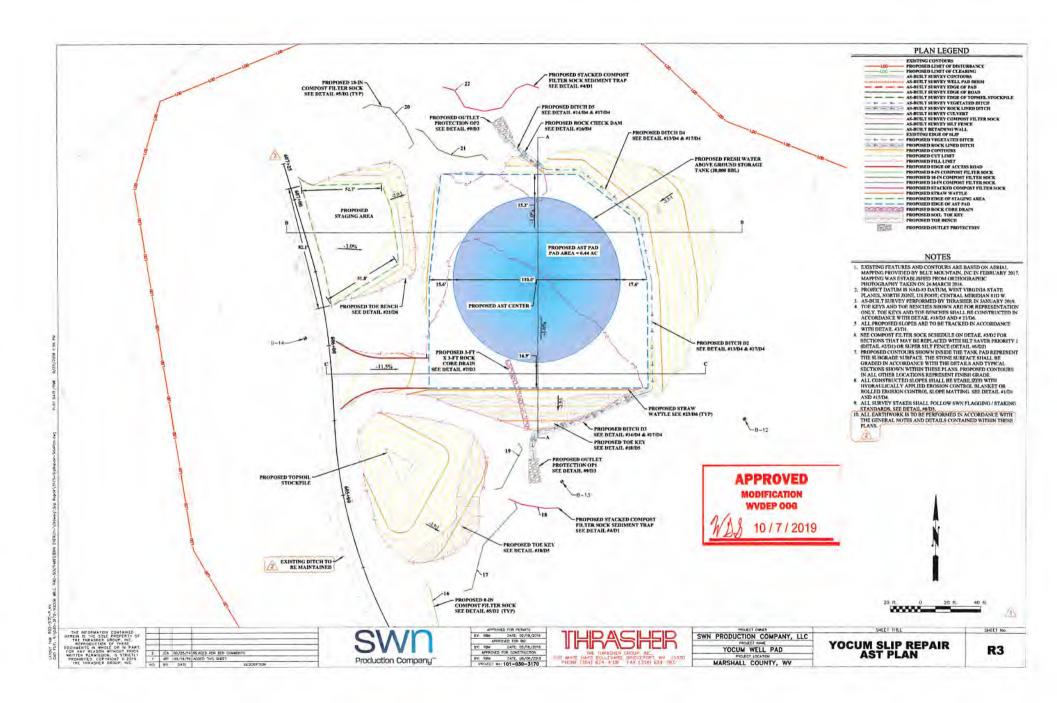
	PROJ	ecr o	WHEE		
SWN	PRODUCTI	ON	CC	MPANY,	LLC
	1110	ECF :	JULIE		
	YOCUM	WE	LL	PAD	
	PROJE	CT LD	CATIO	4	_
	MARSHALL	CC	UN	TY. WV	

AS-BUIL PLAN			
PLAN	MIAD	PRU	ILE

SHEET No 8







MARSHALL COUNTY, WY HIGHWAY MAP

PROJECT LOCATION ENTRANCE

> HIGHWAY MAP SCALE

LOCATION

PROJECT LOCATION ENTRANCE : LOCATION



CONTRACTOR SHALL NOTIFY THE ONE-CALL SYSTEM OF THE INTENDED EXCAVATION OR DEMOLITION NOT LESS THAN PORTY-EIGHT (45) HOURS, EXCLUDING SALTERDAYS, SUDMAYS AND LEGAL FEDERAL OR STATE HOLIDAYS, NOR MORE THAN TEN (10) WORK DAYS PRIOR TO THE BEGINNING OF SUCH WORK.

AS-BUILT PLANS FOR YOCUM WELL PAD AND ACCESS ROAD LIBERTY DISTRICT, MARSHALL COUNTY, WV **FEBRUARY 2019**

TOPHOLE COORDINATES

WV83-N

Longitude

N 39.732946* W 80,583518* 14429762.709 ft N 39.732929* W 80.583545* 14429756.199 ft N 39,732911* W 80.583572* 14429749,720 ft | SLOT 6 N 39.732875" W 80.583627" 14429736.678 ft SLOT 7 N 39.732857* | W 80.583654* 14429730.173 fc SLOT 8 N 39:732840" W 80.583681" 14429723.6671 N 39.732822* W 80.583708* 14429717.157 ft

5LOT 10 N 39.732804" W 80.583755" 14429710.651 ft 1757445.339 f

SLOT 14 N 39.732733* W 80.583843* 14429584.620 ft 1757414.983 ft

N 39.732748* W 80.583953* 14429689.823 ft N 39.732765* W 80.583926* 14429696.329 ft

N 39.732801" W 80.583872" 14429709.344 ft

SLOT 23 N 39.732854* W 80.583790* 14429728.866 fc 1757429.721 fc

SLOT 29 N 39.732961* W 80.583628* 14429767.908 ft 1757475.254 ft SLOT 30 N 39.732979* W 80.583501* 14429774.414 ft 1757482.845 ft SLOT 31 N 39.732597* W 80.583574* 14429780.920 ft 1757490.434 ft SLGT 32 N 39.733014* | W 80.583546* | 14429787.430 ft | 1757498.023 ft

N 39.732819" W 80.583845' 14429715,850 ft 1757414,543 f

14429754.893 ft

14429761.399 ft

SLOT 11 N 39,732786" W 80,583762" 16429704.145 fr SLOT 12 N 39.732769* W 80.583789* 14429697.636 ft 1757430.161 ft SLOT 13 N 39.732751* W 80.583816* 14429691.130 ft

SLOT 15 N 39.732715" W 80.583871" 14429678.115 ft SLOT 16 N 39.732697* | W 80.583898* | 14429671.609 ft | 1757399.805 ft

SLOT 19 N 39.732783* W 80.583899* 14429702.835 ft

N 39.732872" W ao.583763" 5LOT 25 N 39.732890° W 80.583736° SLOT 26 N 39.732908' W 80.583709"

SLOT 27 N 39.732925* W 80.583682*

SLOT 28 N 99.732943* | W 80.583655*

UTM 83-17

Northins

1757513.640 f

1757391.776 ft

RECEIVED Office of Oil and Gas

JUL 2 0 2022

WV Department of **Environmental Protection**

DISTURBANCE SUMMARY

Property Owner (Tax Map / Parcel)	Access Read Disturbance	Well Pad Disturbance	Total Disturbance
Yocum Joseph Leo & Michael D [25-7-26-9]	2.94	16,97	19.91
Vocum Joseph Leo & Michael D (25-7-27-4)	7.66	0.00	7.66
Yocum Joseph Lee & Michael D (25-7-27-5)	0.25	0.00	0.25
High Philip D [25-7-27-8]	0.11	0.00	0.11
Total Disturbance	10.96	15.97	27.93

Coordinate Label	Well Pad Center	Access Road Beginning	AST Center
WV83-N Latitude	N 39.732854*	N 39.729937*	N 39.733899*
WV83-N Longitude	W 8D,583723*	W 80,584822*	W 80,535613*
WV83-N Northing	450881.231 ft	449822.466 ft	451268.087 ft
WV\$5-N Easting	1663725.923 ft	1663403.685 ft	1663199.057 ft
UTM 83-17 Northing	14429728.098 ft	1 14428665,345 fr	14430106.875 ft
UTM 63-17 Easting	1757448.620 ft	1757144,214 ft	1756915.538 ft
UTM 81-17 Northing	4398190.195 m	4397865.993 m	4398305.372 m
UTM 83-17 Easting	535671.411 m	535578.628 m	535508 927 m

WELLS

WELL NAME	API NUMBER	CELLAR	CELLAR DEPTH	CELLAR MATERIAL
PERMITTED YOCUM MSH SH	051-02024	10"	10'	CELLAR TECH
PERMITTED YOCUM MSH 3H	031-02124	10	10'	CELLAR TECH
РЕВМІТТЕЙ ТОСИМ МІЗО 205Н	051-02125	10"	10	CELLARTECH
PERMITTED YOCUM MSH 1H	051-02133	10'	20"	CELLARTECH

DRIVING DIRECTIONS FROM CAMERON, WV

FROM DOWNTOWN CAMERON 3-WAY STOP

HEAD SOUTH ON WILEY (361-FT)
TURN LEFT ONTO US-250 S / MAPLE AVE (8.4-mi)

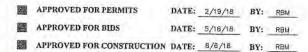
TURN RIGHT ONTO AMOS HOLLOW RD (2,0-mi) DESTINATION WILL BE ON THE RIGHT.

		SHEET INDEX
	SHEET	DESCRIPTION
	1	TITLE SHEET
	2 - 3	EVACUATION PLAN & PREVAILING WIND
	4	AS-BUILT OVERALL SITE PLAN
	5-8	AS-BUILT ACCESS ROAD PLAN & PROFILE
	9	AS-BUILT WELL PAD PLAN
	10	AS-BUILT-WELL PAD SECTIONS
12	RI	SLIP REPAIR OVERALL
1	R.2	SLIP REPAIR SITE PLAN
	R3	ASTPLAN
	R4	AST PAD SECTIONS
	R5-R14	ACCESS ROAD SECTIONS
	- D1-D6	DETAILS

I hereby certify that I am a licensed engineer in the state of West Virginia. This As-Built certifies, to the best of my knowledge, information and belief; the Well Pad constructed by Burns Drilling & Excavation, in Marshall County, WV on behalf of SWN Production Company, LLC, has been constructed in general conformance to the plans and specification and, in my professional opinion, is in compliance with applicable laws, codes, and ordinances.







REVISION NUMBER	SHEETS	BY	DATE	DESCRIPTION
1	1,4,8,R1-R8 & D1-D7	JCA & JRP	09/19/19	ADDED SLIP REPAIR PLANS & DETAILS



SWN PRODUCTION COMPANY, LLC Jane Lew, WV 26378 (304) 884-1610



ONE CALL UTILITY SYSTEM CONTACT INFO

VICINITY MAP SCALE