

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

Monday, April 7, 2025 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for BW Edge MSH 10H

47-051-02538-00-00

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: BW Edge MSH 10H

Farm Name:

William F Edge, Jr. & Barbara 🖬

U.S. WELL NUMBER:

47-051-02538-00-00

Horizontal 6A New Drill

Date Issued: 4/7/2025

API Number: 47-051-02538

PERMIT CONDITIONS

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

CONDITIONS

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

OPERATOR WELL NO. BW Edge MSH 10H Well Pad Name: BW Edge MSH

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

1) Well Operate	or: SWN Pr	oduction C	o., LLC		12924	_	shall 6-San		
				Oper	rator ID	County	Distric	t Quad	Irangle
2) Operator's V	Vell Number:	BW Edge	MSH 10	Η	Well Pa	nd Name: E	SW Edge MS	SH	
3) Farm Name/	Surface Own	CT: William F. Edge. Jr	. & Berbera Edge- Tod	l & Devid Edge	Public Ro	ad Access:	Big Wheeli	ng Creel	Road
4) Elevation, cu	urrent ground	1254'	E	levation	ı, propose	l post-const	ruction: 125	54'	
5) Well Type	(a) Gas <u>x</u> Other		_ Oil		Un	derground S	torage		
	` '	Shallow Horizontal	x		Deep				
6) Existing Pad				···	_				
7) Proposed Ta	•	n(s), Depth							Pressure- 4332
8) Proposed To	tal Vertical D	epth: 664	4'						
9) Formation at	t Total Vertica	al Depth:	Marcellus	s					
10) Proposed T	otal Measure	d Depth:	34245'					·	
11) Proposed H	Iorizontal Leg	Length: 2	27339.04	ļ'	· <u> </u>		· · · · · · · · · · · · · · · · · · ·		
12) Approxima	te Fresh Wate	er Strata De _l	pths:	615'					
13) Method to 1	Determine Fre	sh Water D	epths:	Nearby	Water W	ell			
14) Approxima			-	ty Profi	le Analysi	5			
15) Approxima	te Coal Seam	Depths: 74	44'						
16) Approxima	te Depth to Po	ossible Void	i (coal m	ine, kar	st, other):	None that	we are awa	re of.	
17) Does Propo directly overlyi					es		No X	RECE	VED
(a) If Yes, pro	ovide Mine In	fo: Name:						Attice of the	n and the
		Depth:						MAR	7 2025
		Seam:							artment of
		Owner	: <u> </u>					Environmer	ntal Protection

Stem Grower 1/11/2224

WW-6B (04/15) API NO. 47-051 0 5 1 0 2 5 3 8

OPERATOR WELL NO. BW Edge MSH 10H

Well Pad Name: BW Edge 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#	136'	136'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	800'	800'	921 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	2059'	2059'	789 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	34245'	34245'	Tail 8548ec/ 100' Inside Intermediate
Tubing		<u></u>					
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1,20/30% Excess
Fresh Water	13 3/8"	17.5"	0.330	1730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.352	3520	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/10-15% Excess
Tubing							
Liners							

PACKERS

	IACKERS	Office of the and Gas.
Kind:		
Sizes:		MAR 7 2025
DIEUS.		्राम्याम् । विकास
Depths Set:		W. Ompaniter: Of Protection Environmental Protection



WW-6B (10/14)

API NO447 00 5 1 0 2 5 3 8

OPERATOR WELL NO. BW Edge MSH 10H

Well Pad Name: BW Edge MSH

19)	Describe 1	proposed	well wo	rk, inc	cluding	the drilling	and p	olugging	back of an	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 units, 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):	13.88
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22) Area to be disturbed for well pad only, less access road (acres): 6.58

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 ***

Office of Oil and Gas

MAR 7 2025

WV Department, 31
Environmental Protection

25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

			CEMENT A	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	$\overline{}$	INTEGRA SEAL	C1600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
ua to 3 :	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	\mathbb{X}	INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
a; to 3°.	S001	A-7P	CJIIO	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L	$>\!\!<$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	\mathbb{X}	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
II41 ERWIEDIA IE	CemNet	\times	\times	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETARY
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	\searrow	$>\!\!<$	СЈИ	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	> <	55-IIW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	DO47	FP 28L	$>\!\!<$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	\mathbb{X}	><	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
		>>	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	>>	> <	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	$\nearrow \checkmark$		ÇJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
PRODUCTION		FL-66	0501	LOW TEMP FLUID	POWDERED POLYSACCHARIDE	PROPRIETARY
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	> <	VISCOSI FIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3	>	CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
,	D065	\times	X	DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
	D800			CEMENT RETARDER (Mid-Temperature)	SODIUM	8061-51-6

RECEIVED
Office of Oil and Gas

MAR 7 2025

Environmental Protection 04/11/2025

Proposed Drilling Program Southwestern Energy Company Drilling Rig: SDC 41 Well: **BW EDGE MSH 10H** Formation: Marcellus Shale Field: PANHANDLE FIELD WET wv State: County: MARSHALL SHL (NAD83): 40.006592 Latitude -80.627573 Longitude BHL (NAD83): 39.936706 Latitude -80.588366 Longitude **KB Elev:** 1,280 ft MSL KB Height: 26 ft AGL GL Elev: 1,254 ft MSL NO COAL VOID EXPECTED 136 to 820 Air/Mist PROD TOC @ 2,059 ' MD 820 ' to 2,079 ' Air/Mist **TUBULAR DETAIL** Casing Size Weight Planned Interval Casing String (Min) (Min) (in) From To 94.0# 1-55 136 2,079 to 5,688 Conductor 20 0' 800 Air/Mist Surface/Coal 13.375 54.4# 1-55 0' Intermediate 9.625 36.0# J-55 0 2,059 Production P-110 HP 5.5 20.0# 0 34,245 CEMENT DETAIL Sacks Class Density 19.3 Conductor 173 921 A/L Surface 15.6 Intermediate 789 A/L 15.6 Production A/L 6548 14.5-15.0 TD at 5,688 KOP at 5,688 'MD Freshwater Depth - 615 'TVD 5,688 to 6,776 Coal Depth - 744 'TVD 12.0-12.5 ppg RECEIVED Office of Oil and Gas Saltwater Depth - 1,386 'TVD TVD - 6,644 ' MAR 7 2025 TMD - 34,245 ' wy departmen of Protection onmental TD at 34,245 'MD 6,381 ' TVD Target Center 6,644 'TVD Onondaga 6,665 'TVD 6,776 to 34,245 LP at 6,776 ' MD 12.5-13.5 ppg SHL Onondaga 6,402 'TVD Created by: Colin Kollker on 06/17/2024

STRANCE CONCER

BW Edge MSH 10H AOR

MAR 7 2025

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API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
051-00515-P	Consolidation Coal Company	Plugged	39.941436	-80.590139	3,003'	Berea	N/A
051-00518-P	Consolidation Coal Company	Plugged	39.938483	-80.585204	2151'	3rd Sand	N/A

4705102538 JACKSON SURVEYING INC. 2413 EAST PIKE ST. # 112 Clarksburg, WV 26301 304-623-5851 AOR BUFFER SREA RECEIVEL ice of Oil and GRE MAR 7 2025 w. Jepaninen in 4000 hytrorimental arntectic 4000 0 GRAPHIC SCALE IN FEET NOTES ON SURVEY

1. SURFACE AND POYALTY OWNER INFORMATION AND THEIR
BOUNDARES SHOWN HEREON WERE POINTES FROM DELTS AND/OF
TAX PARKE MASS PROVIDED BY CLIENT AND/OF FIELD ISCANDING
2. THIS PLAY DOES NOT REPRESENT A BOUNDARY SURVEY OF THE
PARKELS SHOWN HERON
4. ALL INSPESS ARE DRIPL MORTH LINESS STHERMASS SERVICES. LEGEND: PROPOSED SURFACE HOLE / BOTTOM HOLE
SCHOOLSTING / PRODUCING WELLHEAD

LPLM LANDING POINT LOCATION ACCESS ROAD TO PREV SITE ====== LEASE BOUNDARY PROPOSED PATH FLOOD PLAN AZLX AZIMUTH POINT LOCATION WELL OPERATOR: WELL (FARM) NAME: WELL # SWN PRODUCTION COMPANY, LLC BW EDGE MSH DISTRICT; COUNTY - CODE - 051 MARSHALL - 051
USGS 7 1/2 QUADRANGLE MAP NAME
WHEELING, WV-OHIO 1300 FORT PIERPONT RD., SUITE 200 MORGANTOWN, WV 26508 SAND HIL

SURFACE OWNER: WILLIAM F. EDGE, JR. & BARABARA EDGE-TOD & DAVID WAYNE EDGE

API #:

API Number 47 - 051

Operator's Well No. BW Edge MSH 10H

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) Grandstaff Run of Wheeling Creek Quadrangle Wheeling
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used? Yes No V
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes No ✓ If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application Underground Injection (UIC Permit Number Various Approved Facilities Reuse (at API Number At the next anticpiated well Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain recovery and solidification on site
Will closed loop system be used? If so, describe: Yes- See Attachment 3A
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air drill to KOP, fluid drill with SOBM from KOP to TO
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base
Additives to be used in drilling medium? Attachment 3B
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? Meadowfill SWF-1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021 Apex Sanitary Landfill Ub-U8438, Brooke Co SWF-1013, FMS 3531UU Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title Staff Regulatory Specialist MAR TOUL MAR OLL ONL ONL ONL ONL ONL ONL ON
Subscribed and sworn before me this 4 day of MOY , 20 24 Notary Pale
My commission expires 4/23/2029 OFFICIAL SE NOTARY PUB STATE OF WEST VENTAGE

SWN Production Co., LLC			4705102 5
Proposed Revegetation Treatment: Acres Dist	turbed _13.88	Prevegetation pH	· [
Lime as determined by pH test min.2 Tons/acre o	or to correct to pH 6.58		
Fertilizer type 10-20-20	<u></u>		
Fertilizer amount 600/500	lbs/acre		
_{Mulch} Hay/Straw	Tons/acre		
	Seed Mixtures		
Temporary		Perma	nent
Seed Type lbs/acre Attachment 3C		Seed Type	lbs/acre
Photocopied section of involved 7.5' topograp Plan Approved by: STRADLA COURT.	7		
Comments:	·		
			orceivel .
			Office of Oil April (35)
			MAR 7 2025
			MAR 7 2025
			MAR 7 2025
Title: Oil & Gas Inspector	Date:	7/11/2624	MAR 7 2025

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 a Shale Gas Separator, 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 highly weighted 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 haul off to an approved landfill site. (See attached schematic of a generic closed loop system layout)

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

AIR DRILLING INTERVALS

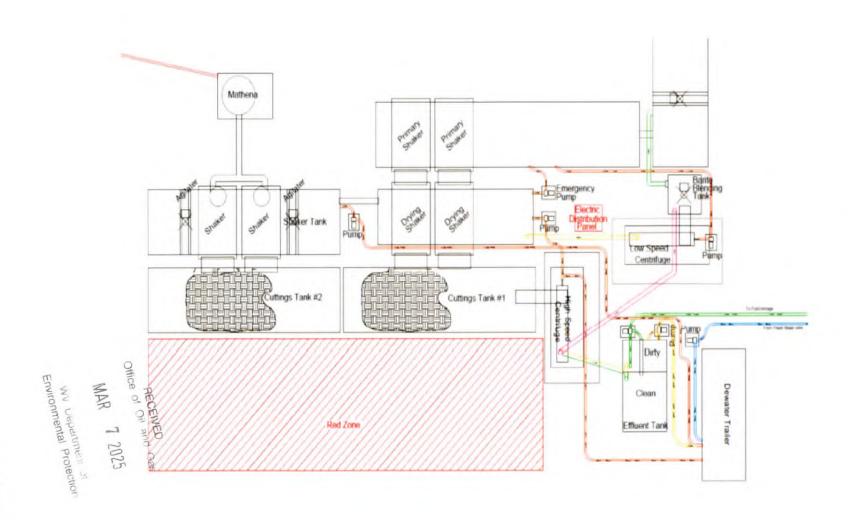
During air drilling operations, flow from the rig will pass down the flowline to the Shale Gas Separator where gas and liquids/solids are separated. Gas is sent to the flare scrubber tank and is flared at the flare stack. Solids and fluids pass across a shaker system to separate solids from liquids. 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.







Drilling Mediums

Surface/Coal (if present)/Freshwater Intervals

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present)

Air

Freshwater (if needed based on conditions)

Brine (if needed, base fluid for mud systems)

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsfiers

Gilsonite

Calcium Carbonate

Friction Reducers

Office of Oil and God MAR 7 2025 WV Department



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		
White Clover	5%	innoculated at 5x normal		
Birdsfoot Trefoil	5%	rate		
Rough Bluegrass	5%			
Apply @ 100lbs per acre April 16th- Oct. 14th		Apply @ 200lbs per acre Oct. 15th- April 15th PLUS bs per acre of Winter Wheat		

SOIL AMENDMENTS

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

Seeding Calculation Information:

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

Synopsis

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

Special Considerations:

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

ORGANIC PROPERTIES

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

WETLANDS (delineated as jurisdictional wetlands)

Seed Mixture: Wetland Mix	SWN Supplied	
VA Wild Ryegrass	20%	
Annual Ryegrass	20%	
Fowl Bluegrass	20%	
Cosmos 'Sensation'	10%	
Redtop m	5%	
Golden Tickseed	品 5%	4
Maryland Senna	≥ 6	7
Redtop Golden Tickseed Maryland Senna Showy Tickseed Fox Sedge Soft Rush Woolgrass Swamp Verbena	AECEVE 5% 5% 5%	0
Showy Tickseed Processing Process	2.5% 2.5%	5
Soft Rush	2.5%	_
Woolgrass	2.5%	0
Swamp Verbena	2.5%	
Apply @ 25lbs per acre	Apply @ 50lbs per acre	N
April 16th- Oct. 14th	Oct. 15th- April 15th	S
NO FERTILIZE	R OR LIME INSIDE WETLAND LIMITS	W
		∞

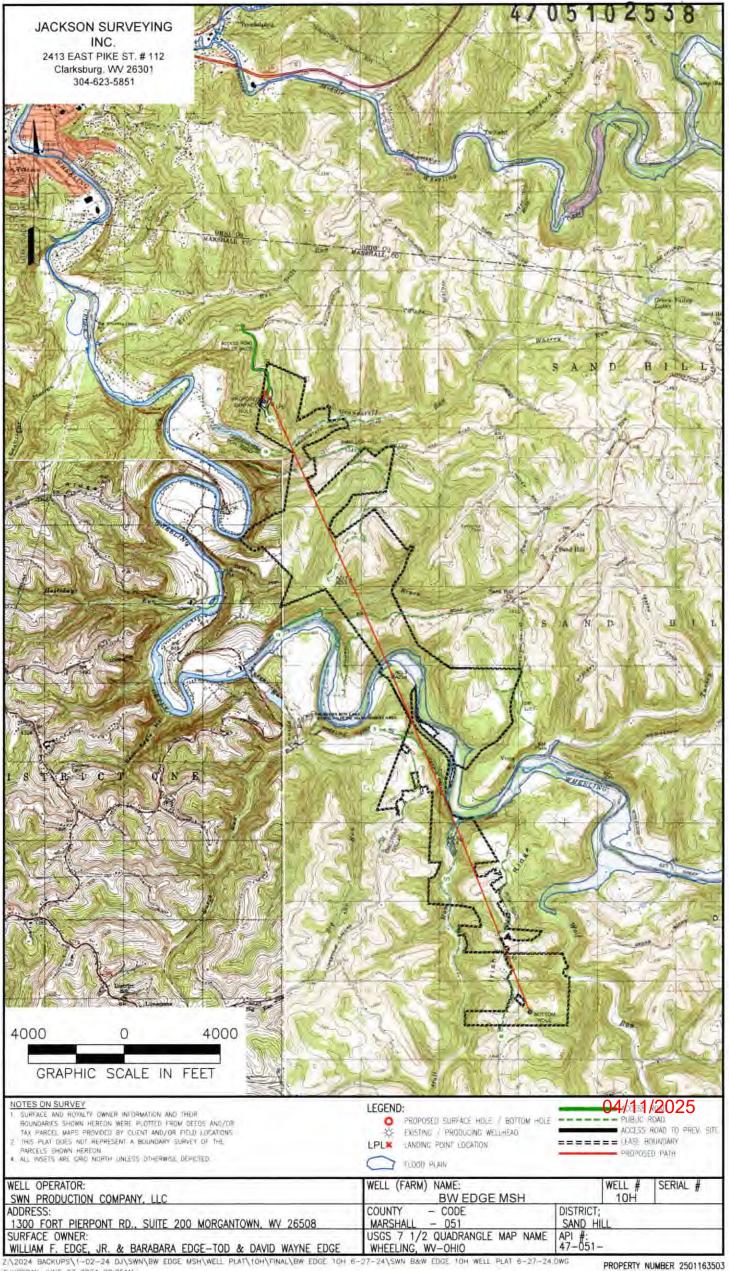
MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN 47 0 5 1 0 2 5 3 8



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

API NO. 47-XXX-XXXXX
WELL NAME: BW Edge MSH 10H
Wheeling QUAD
Sand Hill DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

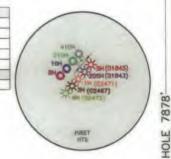
Submitted by:		
Name: Brittany Woody Stuttany Woody	Date: <u>5/13/2024</u>	RECEIVED (300
Title: Staff Regulatory Specialist	SWN Production Co., LLC	Office of Oil and 2025
Approved by:		MAR Department of
Name: STRAPER GOWER	Date: 1 11 2024	Environmental Protecti
Title: OILGAS Inspostor		
Approved by:		
Name:	Date:	
Title:		
SWN PRODUCTION COMPANY, LLC	– CONFIDENTIAL	



BOTTOM HOLE 1,411'-

2413 EAST PIKE ST. # 112 Clarksburg, WV 26301 304-623-5851

Sn



ВОТТОМ

12777

HOLE

SURFACE

80.37

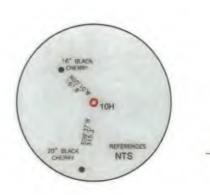
ongitude

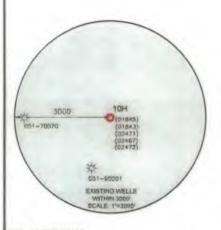
8 35 80. tude:

UTM (NAD83, ZONE 17, METERS): NORTHING: 4,428,555.258 EASTING: 531,787.227
LANDING POINT LOCATION (LPL):
UTM (NADB3, ZONE 17, METERS): NORTHING: 4,428,515.332 EASTING: 531,898.951

SURFACE HOLE LOCATION (SHL):

BOTTOM HOLE LOCATION (BHL) UTM (NAD83, ZONE 17, METERS) NORTHING: 4,420,813,362 EASTING: 535,169,419





WELL RESTRICTIONS

NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.

NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.

NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.

NO PERENIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.

NO NATURALLY PRODUCTION TROUT STREAM WITHIN 300 FEET OF LIMITS. OF DISTURBANCE.

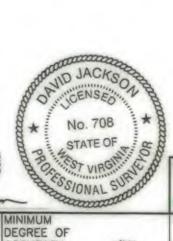
NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

OTES ON SULVEY. NOTES ON SURVEY

BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.

INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

THE UNDERSIGNED, HEREBY CERTIFY THAT
CT TO THE BEST OF MY KNOWLEDGE AND BE
HE INFORMATION REQUIRED BY LAW AND REG
RESCRIBED BY THE DEPARTMENT OF ENVIRONMEN



2000 0 2000 GRAPHIC SCALE IN FEET COMPANY Production Company, LLC Production Company™



(+) DENOTES LOCATION OF WELL ON MINIMUM UNITED STATES TOPOGRAPHIC MAPS

David I &

OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034 DEGREE OF ACCURACY:

1/200

PROVEN PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

DEEP

OPERATOR'S WELL #:

BW EDGE MSH 10H

47 API WELL #: STATE

051 COUNTY

02538 PERMIT

WELL TYPE: OIL

WASTE DISPOSAL

PRODUCTION X

GAS X

LIQUID INJECTION

WATERSHED: GRANDSTAFF RUN OF WHEELING CREEK (HUC-10)

COUNTY: MARSHALL

ELEVATION: 1253.8' QUADRANGLE: WHEELING, WV-OHIO

ACREAGE: ±87.8

ACREAGE: ±115.8

DISTRICT: SAND HILL SURFACE OWNER: WILLIAM F. EDGE, JR. & BARABARA EDGE-TOD & DAVID WAYNE EDGE

OIL & GAS ROYALTY OWNER: JOSEPHINE FLETCHER

REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION

ESTIMATED DEPTH: 6,644 TVD 34,245' TMD

DRILLX

DRILL DEEPER

CLEAN OUT & REPLUG

OTHER CHANGE

(SPECIFY)

04/11/2025

PLUG & ABANDON TARGET FORMATION: MARCELLUS

DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT RD., SUITE 200 MORGANTOWN

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC

WV STATE: ZIP CODE: 26508

ADDRESS: 1300 FORT PIERPONT RD., SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:

PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD

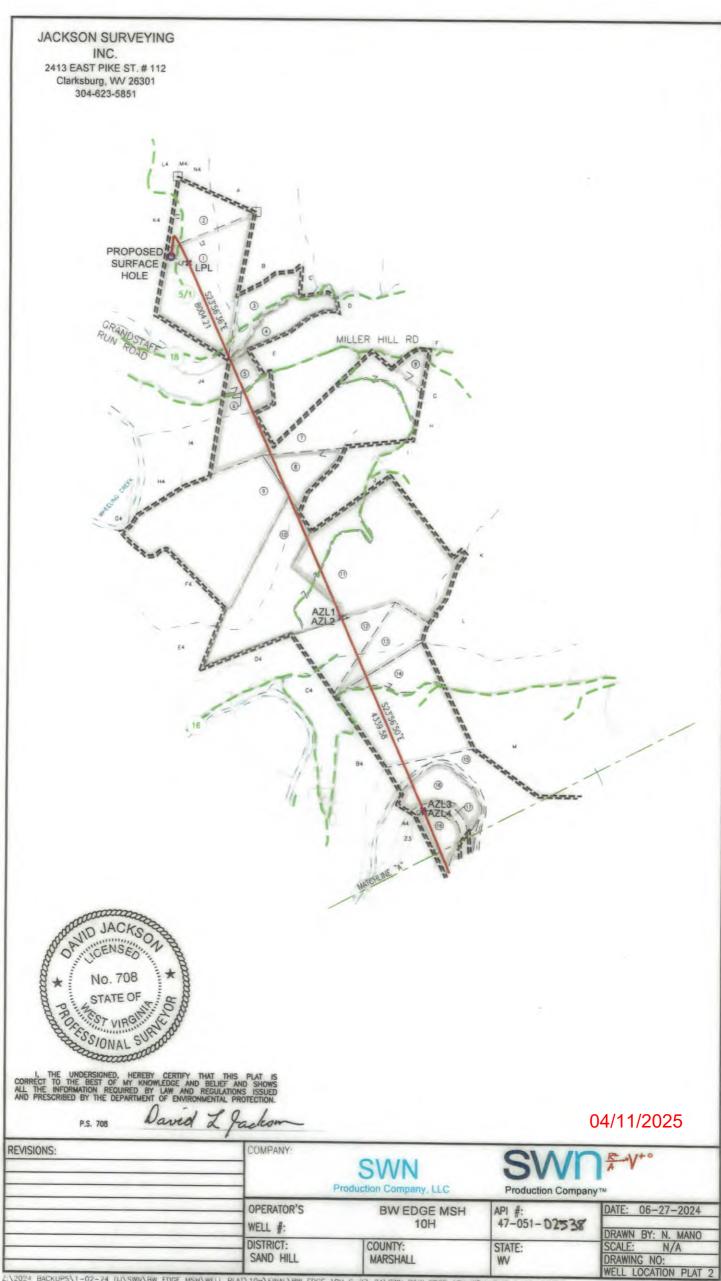
LPL# LANDING POINT LOCATION

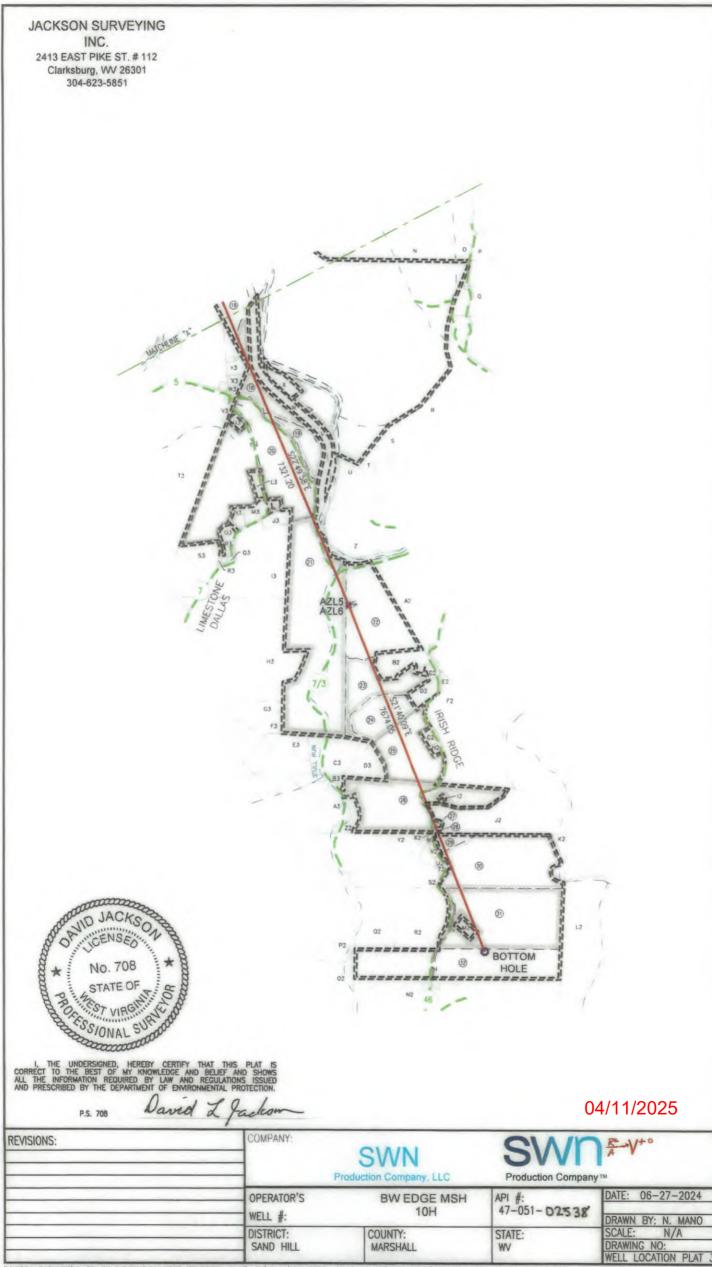
EXISTING WATER WELL EXISTING SPRING

- DRILLING UNIT = = = LEASE BOUNDARY PROPOSED PATH

REVISIONS: DATE: 06-27-2024 DRAWN BY: N. MANO

DRAWING NO WELL LOCATION PLAT





Z:\2024 BACKUPS\1-02-24 DJ\SWN\BW EDGE MSH\WELL PLAT\10H\FINAL\BW EDGE 10H 6-27-24\SWN B&W EDGE 10H WELL PLAT 6-27-24.DW
THURSDAY JUNE 27 2024 10:56AM

JACKSON SURVEYING INC. 2413 EAST PIKE ST. # 112

2413 EAST PIKE ST. # 112 Clarksburg, WV 26301 304-623-5851

	WELL BORE TRACTS	
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (II)	TAX PARCEL
1	EDGE WILLIAM JR & BARBARA ANN - TOD & DAVID WAYNE EDGE (S)/ FLETCHER JOSEPHINE (R)	12-9-8
TRACT	SURFACE DWNER(S)	TAX PARCEL
2	WHEELING POWER COMPANY (S)	12-9-8,1
3	ISALY ROBERT A SR EST (S)	12-2-13
4	GIBSON WILLIAM E (5)	12-9-12
5	GRAY JOHN ALVIN EST (S)	12-9-11
6	WV DEPT OF HIGHWAYS (S)	MILLER HILL ROAD
.7	MERINAR JAMES MARTIN ET UX (S)	12-9-15.1
8	MERINAR CALVIN C - LIFE(S)	12-9-15
9	FISHER CHARLES B & CARLA S (S)	12-9-20
10	MERINAR CALVIN C - LIFE (S)	12-9-19
11	MERINAR CALVIN C - LIFE (S)	12-9-18
12	MERINAR CALVIN C (5)	12-11-1
13	CLAYTON CHARLES W ET AL (5)	12-11-2
14	EQTTGHL EXPLORATION, LLC (S)	12-11-3
15	THOMAS RICHARD LEE BARTON (S)	12-11-16
16	ISKCON - NEW MATHURA VRINDABAN (S)	15-1-8
17	ISKCON - NEW MATHURA VRINDABAN (S)	15-1-9
18	ISKCON - NEW MATHURA VRINDABAN (S)	15-1-12
19	ISKCON - NEW MATHURA VRINDABAN (5)	15-1-15
20	ISKCON - NEW MATHURA VRINDABAN (S)	15-1-16
21	ANDERSON SARA JO (S)	15-2-4
22	MARKONICH RICHARD J (S)	15-3-2
23	BENNETT ROBERT A ET UX (S)	15-3-25.5
24	STRAUTMANN BONNIE & JEFF (S)	15-3-25.4
25	GRIMM JOYCE E (S)	15-3-24
26	GRIMMJOYCE E (S)	15-6-3
27	ANDERSON JULIE A (S)	15-6-5.1
28	STROPE ANTHONY (S)	15-6-4
29	STROPE ANTHONY (5)	15-6-6.5
30	ANGEL KYLEA (S)	15-6-6
31	BURKEY MICHAELJ & LINDA (5)	15-6-14
32	FITZSIMMONS MARK B & DEBORAH A (S)	15-6-15

	ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER	TAX PARCE
A	WV BRIGHTMONT LLC	12-1-16
В	WV BRIGHTMONT LLC	12-2-14
C	G F P CORP	12-2-12
D	GFPCORP	12-2-7
E	PORTER CARLAS	12-9-13
F	TOTH JOHN J SR & ALICE - TRUST	12-8-4.1
G	RICHEY RANDY ET UX	12-8-35
н	MERINAR CALVIN C - LIFE	12-8-34
1	MERINAR CALVIN C - LIFE	12-9-16
1	MERINAR CALVIN C - LIFE	12-9-16.1
К	TOLAND WILLIAM R	12-8-33
L	TOLAND SONDRA J & WILLIAM E	12-9-17
M	TEMPLE TERRY L & BEVERLY J-TOD	12-11-4
N	GRAY DONALD G - TOD & GRAY WYATT MATTHEW	12-11-8
0	HILLBERRY PAUL E JR	12-11-9.3
p	LOUGHERY JAMES P JR & BROCK ROBIN M	12-11-9.2
Q	JUNKINS RONALD DIR ET AL	12-11-15
R	CONSOL LAND DEVELOPMENT CO	12-16-18
5	KUPFER PHILLIP A	12-16-2.3
T	KING CHRISTOPHER I ET UX	12-16-4
U	SWARTZEL MOSES D & LILA K	12-16-2
V	ISKCON - NEW MATHURA VRINDABAN	15-1-14
W	ISKCON - NEW MATHURA VRINDABAN	15-1-13
X	ISKCON - NEW MATHURA VRINDABAN	15-1-12.2
4	MARKWEST LIBERTY MIDSTREAM & RESOURCES-LLC	15-3-3.1
Z	MURPHY MARIAN	12-16-2.2
A2	MARKONICH RICHARD J	15-3-3
B2	BENNETT PATRICIA A	15-3-25
C2	BENNETT ROBERT E ET UX	15-3-25.3
D2	STRAUTMANN BONNIE L & JEFFREY	15-3-25.2
E2	OHIO VALLEY HEART INSTITUTE INC - CAYTON STEVEN & JESSICA	15-3-25.1
F2	EBERT RENEE LYNN GRIMM	15-3-21
G2	PETHTEL JASON ET AL	15-3-23
H2	GRIMMJOYCEE	15-3-24.1
12	EBERT RENEE LYNN GRIMM	15-6-3.1
12	5TROPE GARY ANTHONY	15-6-5
К2	FISH TE ET UX	15-6-25
1.2	FOSTER KERRY GLENN ET UX	15-6-24
MZ	BURKEY MICHAEL I & LINDA	15-6-14.1

	ADJOINING OWNERS TABLE	
RACT	SURFACE OWNER	TAX PARCE
N2	KAISER JOE M & SHIRLEY A FAMILY REVOCABLE TRUST	15-6-17
02	COFFIELD WILLIAM E & BRENDA K ET AL	15-6-16
P2	MILLER R CRAIG & DONITA D	15-6-11
Q2	FITZSIMMONS MARK B ET UX - TOD	15-6-12
R2	FITZSIMMONS KATIE L	15-6-13
52	HITZSIMMONS KATTEL	15-6-7
T2	FITZSIMMONS MARK B & DEBORAH A	15 6 6 4
U2	ANGEL KYLEA J	15-6-6.3
V2	STROPE FAMILY TRUST ET AL	15-6-6.1
W2	DUNLAP LARRY W & BARBARA	15-6-9.1
Х2	FITZSIMMONS MARK & DEBORAH A	15-6-9
Y2	DUNLAP LARRY W & BARBARA E	15 6 9.2
12	HIZSIMMONS MARK B & DEBORAH A	15-6-2
A3	GALL EDNA S & FRANK P LAUTAR	15 6 1
B3	GIVENS JASPER N	15-3-28
C3	SHIPLEY JAMES S	15 3 27
D3	SHIPLEY JAMES S	15 3 26
E3	MARCELO VANESSA	15-2-12.9
F3	ORTEGA GILDA	15-2-12.6
G3	CLOTHIER VRINDA DET AL	15-2-12 11
нз	ISKCON NEW VRINDABAN INC	15-2-5
13	GLLIA	15-2-3.5
J3	ISKCON NEW MATHURA VRINDABAN	15 2 3.6
N3	ISKCON - NEW MATHURA VRINDABAN	15-1-16.1
13	ISKCON NEW MATHURA VRINDABAN	15-1-17
M3	ISKCON NEW MATHURA VRINDABAN	15 1 18
N3	MOWEN JOHN H JR	15-1-18.1
03	ISKCON - NEW MATHURA VRINDABAN	15-1-16.3
P3	ISKCON - NEW MATHURA VRINDABAN	15-2-3.3
Q3	FRAENKEL ANDY & RUTH	15-2-3.4
R3	FRAENKEL ANDY & RUTH	15-2-3./
S3	HELLER ELICIA N	15-2-3.9
13	ROSL TATIA JOSLPHINE	15 1 19
U3	ISKCON NEW MATHURA VRINDABAN	15 1 16.2
V3	ISKCON - NEW MATHURA VRINDABAN	P/O 15-1-19
W3	BROWN ELEANORE	15-1-11
хз	ROSE TATIA JOSEPHINE	15 1 10
13	PRETTYMAN JEREMY A & BETH A	15-1-19.1
73	HICKEY GLENN M	15-1-6.1
A4	HICKEY GLENN M	15-1-7
B4	HICKEY GLENN M	
C4	MERINAR KENNLIH LLI AL	12-10-8
D4	MERINAR CALVIN C LIFE	12 10 7
E4	FISH PATRICIA A & FREDERICK W	
F4		12-10-1.2
G4	SCHAFER ROY A JR & BRENDA M	12-9-22
H4	GRAY JOHN ALVIN EST	13 3 14
14	GRAY JOHN ALVIN EST	12-9-21
14	PIKEWOOD ENERGY CORP	12 9 10
K4	ISALY ROBERT A SR EST	12-9-9
K4	FOLMAR EDITH A TRUST	12-1-19
Ma	SCHELLHASE MARK A ET UX	12-1-18
N4	SCHELLHASE MARK A & ANDREA K WV BRIGHTMONT LLC	12-1-15-4

*Highlighted Parcels may be impacted ouring drilled.

04/11/2025

REVISIONS:	COMPANY:	SWN Production Company, LLC	SWI Production Company	R V+°
	OPERATOR'S WELL #:	BW EDGE MSH 10H	API #: 47-051- D2538	DATE: 06-27-2024 DRAWN BY: N. MANO
	DISTRICT: SAND HILL	COUNTY: MARSHALL	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT 4

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

See Exhibit "A"

Office of Oil and Fise

MAR 7 2025

WV Department of Environmental Protection

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

*Potentially Impacted Parcels - Parcels that may be impacted during drilling.

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

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

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

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

Well Operator: SWN Production Company, LLC

By: Andrew Smith Rule M. Sutt

Its: Landman

Page 1 of 1

EXHIBIT "A" BW Edge MSH 10H

Marshall County, West Virginia

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

Tract	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
1	12-9-8	Josephine Fletcher f/k/a Josephine Fisher, a married woman acting in her sole and separate property	NPAR, LLC	at least 1/8th per WV Code §22-6-8	707/584	0.00%
		NPAR, LLC	Chevron, USA, Inc	W V Code 922-0-6	756/332	
		Chevron, USA, Inc	Chesapeake Appalachia, L.L.C.		30/532	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
2	12-9-8.1	Josephine Fletcher f/k/a Josephine Fisher, a married woman	NPAR, LLC	at least 1/8th per	707/584	0.00%
		acting in her sole and separate property NPAR, LLC	Chevron, USA, Inc	WV Code §22-6-8	756/332	
		Chevron, USA, Inc	Chesapeake Appalachia, L.L.C.		30/532	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
3	12-2-13	Robert A. Isaly, Jr. and Margaret A. Isaly, Husband and Wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	834/199	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	,	33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		Connie S. Harris, a married woman dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1073/30	0.00%
		Edward L. Gardner, II, a married man dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1074/486	0.00%
		Scott A. Gardner, a married man dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1073/44	0.00%
			RECEIVED			•

RECEIVED

Office of Oil and Gas

EXHIBIT "A" BW Edge MSH 10H

Marshall County, West Virginia

Tract	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% interest Not Leased by SWN
		Eric M. Gordon, Esq., as Special Commissioner on behalf of James E. Isaly and his Unknown or Missing Heirs and Beneficiaries, pursuant to Order of the Marshall County Cicuit Court in Civil Action No. 21-C-36.	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1114/358	0.00%
4	12-9-12	Eric M. Gordon, Esq., as Special Commissioner on behalf of Leota Campbell Ferrell and her Unknown or Missing Heirs and Beneficiaries, pursuant to Order of the Marshall County Circuit Court in Civil Action No. 20-C-78	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1106/576	0.00%
		William E. Gibson, married, dealing in his separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1080/511	0.00%
5	12-9-11	John Alvin Gray, married, dealing in his separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1083/410	0.00%
		Eric M. Gordon, Esq., as Special Commissioner on behalf of Leota Campbell Ferrell and her Unknown or Missing Heirs and Beneficiaries, pursuant to Order of the Marshall County Circuit Court in Civil Action No. 20-C-78	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1106/576	0.00%
6	Miller Hill Road	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1187/293	0.00%
7	12-9-15.1	James Martin Merinar and Belinda J. Merinar, his wife	Great Lakes Energy Partners, L.LC.	at least 1/8th per WV Code §22-6-8	655/81	0.00%
		Range Resources - Appalachia, LLC	Chesapeake Appalachia, L.L.C.		23/368	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
8	12-9-15	Calvin C. Merinar, divorced, dealing in sole and separate property	Great Lakes Energy Partners, L.L.C.	at least 1/8th per WV Code §22-6-8	652/32	0.00%
		Range Resources - Appalachia, LLC	Chesapeake Appalachia, L.L.C.		23/368	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	Office of Oil and Gas	33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC	` [™] and Gas	33/424	

EXHIBIT "A" BW Edge MSH 10H

Marshall County, West Virginia

Tract	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
9	12-9-20	Charles A. Fisher and Carla S. Fisher, his wife	TriEnergy, Inc	at least 1/8th per WV Code §22-6-8	655/559	0.00%
		TriEnergy, Inc	AB Resources, LLC		19/623	
		AB Resources, LLC	Chevron, USA, Inc	RECEIVED	756/397	
		Chevron, USA, Inc	Chesapeake Appalachia, L.L.C.	Office of Oil and Gas	30/532	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	MAR 7 2025	33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC	W. Specime : B Environmenta: Protection	33/424	
10	12-9-19	Robert A. Smith, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	721/209	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
11	12-9-18	Calvin C. Merinar, a single	TH Exploration, LLC	at least 1/8th per WV Code §22-6-8	1136/207	0.00%
		EQT TGHL Exploration, LLC f/k/a TH Exploration, LLC	SWN Production Company, LLC		1202/119	
12	12-11-1	Calvin C. Merinar, divorced	Great Lakes Energy Partners, L.L.C.	at least 1/8th per WV Code §22-6-8	652/32	0.00%
		Range Resources - Appalachia, LLC	Chesapeake Appalachia, L.L.C.	5000 322 0 0	23/368	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
13	12-11-2	Gregory P. Clayton and Denise Clayton, husband and wife	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1067/469	0.00%

4705102538

EXHIBIT "A" BW Edge MSH 10H

Marshall County, West Virginia

American Petroleum Partners Operating, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC SWN Production Company, LLC N/A (subject to Unitization filing dated January 31, 2025) ISKCON New Vrindaban, Inc. SWN Production Company, LLC TH Exploration, LLC	at least 1/8th per WV Code §22-6-8 at least 1/8th per WV Code §22-6-8 at least 1/8th per	1091/439 48/263 N/A 1207/641	0.00% 100.00% 0.00%
15 12-11-16 Royalty Owner (subject to Unitization filing dated January 31, 2025) 16 15-1-8 ISKCON New Vrindaban, Inc. SWN Production Company, LLC 17 15-1-9 Bounty Minerals, LLC TH Exploration, LLC	WV Code §22-6-8 at least 1/8th per WV Code §22-6-8 at least 1/8th per	N/A	
(subject to Unitization filing dated January 31, 2025) 15 15-1-8 ISKCON New Vrindaban, Inc. SWN Production Company, LLC TH Exploration, LLC	WV Code §22-6-8 at least 1/8th per WV Code §22-6-8 at least 1/8th per		
17 15-1-9 Bounty Minerals, LLC TH Exploration, LLC	WV Code §22-6-8 at least 1/8th per	1207/641	0.00%
The Application, Ecc	at least 1/8th per		
	WV Code §22-6-8	1025/587	0.00%
TH Exploration, LLC American Petroleum Partners Operation		45/146	
American Petroleum Partners Operating, LLC SWN Production Company, LLC		46/29	
18 15-1-12 ISKCON New Vrindaban, Inc. SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1207/644	0.00%
19 15-1-15 ISKCON New Vrindaban, Inc. SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1208/89	0.00%
20 15-1-16 International Society of Krishna Consciousness - New Mathura NPAR, LLC Vrindaban, Inc.	at least 1/8th per WV Code §22-6-8	696/144	0.00%
NPAR, LLC Chevron U.S.A. Inc.		765/332	
Chevron, USA, Inc Office of Oil and Gas Chesapeake Appalachia, L.L.C.		30/532	
Chesapeake Appalachia, L.L.C. MAR 7 2025 SWN Production Company, LLC		33/110	
Statoil USA Onshore Properties, Inc SWN Production Company, LLC		33/424	
21 13-2-4 Sara Jo Anderson, widow CNX Gas Company, LLC	at least 1/8th per WV Code §22-6-8	696/242	0.00%
CNX Gas Company, LLC Noble Energy, Inc.		26/225	
Noble Energy, Inc. and CNX Gas Company, LLC Chesapeake Appalachia, L.L.C.		32/113	

EXHIBIT "A" BW Edge MSH 10H

Marshall County, West Virginia

Tract	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/582	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		35/32	
22	15-3-2	Frederick W. Dague, single, and Harriet C. Riggle, married	TriEnergy Holdings, LLC	at least 1/8th per WV Code §22-6-8	699/365	0.00%
		TriEnergy Holdings, LLC	NPAR, LLC	·	24/180	
		NPAR, LLC	Chevron, USA, Inc		26/16	
		NPAR, LLC	Chevron, USA, Inc	RECEIVED	756/332	
		TriEnergy Holdings, LLC and TriEnergy, Inc	Chevron, USA, Inc	Office of Oil and Gas	28/356	
		Chevron, USA, Inc	Chesapeake Appalachia, LLC	* 4025	30/532	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC	WV Department of Environmental Protection	33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
23	15-3-25.5	Jeffrey A. Strautmann and Bonnie L. Strautmann, husband and wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	700/626	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Edward F. Thacker and Linda M. Thacker, husband and wife.	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	700/630	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Donald P. Thacker, single	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	702/53	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		James W. Thacker and Linda L. Thacker, husband and wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	703/169	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Charles C. Thacker, married and doing business in his sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	704/199	0.00%

EXHIBIT "A" BW Edge MSH 10H

Marshall County, West Virginia

Tract	Tax Parcel		Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Charles V. Eller, widower, through Charles Walter Eller, his agent and Attorney-in-Fact	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	828/93	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	322 322 322 3	33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		Robert E. Bennet, by Robert J. Bennet as Power of Attorney, and Patricia A. Bennett, husband and wife, as joint tenants with right of survivorship	American Petroleum Partners Operating LLC	at least 1/8th per WV Code §22-6-8	1026/606	0.00%
		American Petroleum Partners Operating LLC	SWN Production Company, LLC		45/381	
24	15-3-25.4	Jeffrey A. Strautmann and Bonnie L. Strautmann, husband and wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	700/626	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	• • •	33/110	
		Joyce A. Ewing and Fred A. Ewing, her husband	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	701/90	0.00%
		Edward F. Thacker and Linda M. Thacker, husband and wife.	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	700/630	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	** * Code 922-0-8	33/110	
		Donald P. Thacker, single	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	702/53	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	*** Code 922-0-8	33/110	
		James W. Thacker and Linda L. Thacker, husband and wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	703/169	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	*** COUC 322-0-8	33/110	
		Charles C. Thacker, married and doing business in his sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	704/199	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	322 3 3	33/110	
		Charles V. Eller, widower, through Charles Walter Eller, his agent and Attorney-in-Fact		at least 1/8th per WV Code §22-6-8	828/93	0.00%
25			SWN Production Company, LLC		33/110	
43		Character A I No A A	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	682/131	0.00%
	,	MAR 7 2025	SWN Production Company, LLC		33/110	

EXHIBIT "A" BW Edge MSH 10H

Marshall County, West Virginia

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

Tract	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
26	15-6-3	Joyce E. Grimm, widow	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	682/131	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	*** Code 322-0-0	33/110	
27	15-6-5.1	Julie A. Foster, f/k/a Julie A. Anderson, married and doing business in her sole and separate right	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	717/566	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
28	15-6-4	Mark Brent Fitzsimmons, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	690/302	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Rickee Jo Strope, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	690/305	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
29	15-6-6.5	Rickee Jo Strope, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	690/323	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Mark Brent Fitzsimmons, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	690/371	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
30	15-6-6	Rickee Jo Strope, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	690/323	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Mark Brent Fitzsimmons, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	690/371	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
31	15-6-14	Rose L. Riley, a widow	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	730/65	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Robert J. Riley, III and Tammy J. Riley, his wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	730/76	0.00%
		Chesapeake Appalachia, L.L.C. RECEIVED Office of Oil and Gas	SWN Production Company, LLC		33/110	

MAR 7 2025

www Department of Environmental Protection

EXHIBIT "A" BW Edge MSH 10H

Marshall County, West Virginia

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

Tract	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
		Timothy G. Riley and Judy W. Riley, his wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	730/81	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		David B. Riley and Kelly R. Riley, his wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	730/86	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Ellen W. Riley and Mark D. Flower, her husband	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	734/370	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
:		Wendy Maxim and Corey Maxim, her husband	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	736/500	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Wendy Rosian, Guardian and Mother of Daniel D. Rufner, for and on behalf of Daniel D. Rufner, a minor child	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	782/403	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Chester A. Burkey, a widower, and Michael J. Burkey and Linda V. Burkey, his wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	819/127	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
:		Vicki F. Riley, a widow	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	730/70	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		Brent M. Ruffner, a single man Office of Oil and Gas	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	736/510	0.00%
		Chesapeake Appalachia, L.L.C. MAR 7 2025	SWN Production Company, LLC		33/110	

WV Departme - 7 Environmental Protection

EXHIBIT "A"

BW Edge MSH 10H

Marshall County, West Virginia

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

Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. SWN Production Company, LLC Statoil USA Onshore Properties Inc. SWN Production Company, LLC 33/24 32 15-6-15 Mark B. Fitzsimmons and Deborah A. Fitzsimmons, husband and wife Chesapeake Appalachia, L.L.C. SWN Production Company, LLC THE Exploration, LLC American Petroleum Partners Operating, LLC American Petroleum Partners Operating, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC At least 1/8th per WV Code 522-68 SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC At least 1/8th per WV Code 522-68 The state of the per St	Tract	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
Chesapeake Appalachia, LL.C. Statoil USA Onshore Properties Inc. SWN Production Company, LLC 33/110 33/214 32			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
Statoil USA Onshore Properties Inc. SWN Production Company, LLC. at least 1/8th per WV Code \$22-6-8 The Sapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. SWN Production Company, LLC. Statoil USA Onshore Properties Inc. SWN Production Company, LLC. Statoil USA Onshore Properties Inc. SWN Production Company, LLC. Statoil USA Onshore Properties Inc. SWN Production Company, LLC. SWN Production Company, LLC THE Exploration, LLC American Petroleum Partners, Operating, LLC THE Exploration, LLC American Petroleum Partners Operating, LLC THE Exploration, LLC American Petroleum Partners, Single The SWN Production Company, LLC SWN Production Company, LLC THE Exploration, LLC American Petroleum Partners, Operating, LLC THE Exploration, LLC American Petroleum Partners, Single SWN Production Company, LLC THE Exploration, LLC American Petroleum Partners, Operating, LLC SWN Production Company, LLC THE Exploration, LLC THE Exploration, LLC American Petroleum Partners, Operating, LLC THE Exploration, LLC American Petroleum Partners, Operating, LLC THE Exploration, LLC American Petroleum Partners, Operating, LLC THE Exploration, LLC THE Ex			James B. Riley, Jr. and Cataline E. Riley, his wife	Chesapeake Appalachia, L.L.C.		736/515	0.00%
15-6-15 Mark B. Fitzsimmons and Deborah A. Fitzsimmons, husband and wife			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
wife Chesapeake Appalachia, LLC. Statoil USA Onshore Properties Inc. SWN Production Company, LLC. Statoil USA Onshore Properties Inc. SWN Production Company, LLC SWN Production Company, LLC at least 1/8th per WV Code \$22-6.8 W 15-1-3 Bounty Minerals, LLC HE Exploration, LLC American Petroleum Partners Operating, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC American Petroleum Partners Operating, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 All least 1/8th per WV Code \$22-6.8 All least 1/8th per WV Code \$22-6.8 All least 1/8th per WV Code \$22-6.8 Stone Coal Resources, LLC SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 WV Code \$22-6.8 Stone Coal Resources, LLC SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 WV Code \$22-6.8 SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 WV Code \$22-6.8 SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 SWN Production Company, LLC At least 1/8th per WV Code \$22-6.8 SWN Prod			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
Statoil USA Onshore Properties Inc. SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 W 15-1-13 Bounty Minerals, LLC TH Exploration, LLC American Petroleum Partners Operating, LLC WV Code 522-6-8 W 20-2-6-8 Af5/146 Af6/29 Y 15-2-3.1 Ellen J. Harness, single W Code 522-6-8 Mary Lou Alten, matried, dealing in her separate property SWN Production Company, LLC SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 WV Code 522-6-8 Stone Coal Resources, LLC SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 WV Code 522-6-8 Stone Coal Resources, LLC SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 WV Code 522-6-8 Chesapeake Appalachia, LLC SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC At least 1/8th per WV Code 522-6-8 SWN Productio	32	15-6-15		Chesapeake Appalachia, L.L.C.		690/320	0.00%
E 12-9-13 Greenbrier Royalty Fund II, LLC SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 W 15-1-13 Bounty Minerals, LLC TH Exploration, LLC at least 1/8th per WV Code 522-6-8 TH Exploration, LLC American Petroleum Partners Operating, LLC American Petroleum Partners Operating, LLC WV Code 522-6-8 Y 15-2-3.1 Ellen J. Harness, single SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Mary Lou Allen, matried, dealing in her separate property SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Stone Coal Resources, LLC SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Stone Coal Resources, LLC SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 WV Code 522-6-8 Chesapeake Appalachia, LLC SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, LLC at least 1/8th per WV Code 522-6-8			Chesapeake Appalachía, L.L.C.	SWN Production Company, L.L.C.		33/110	
W 15-1-13 Bounty Minerals, LLC TH Exploration, LLC at least 1/8th per WV Code 522-6-8 TH Exploration, LLC American Petroleum Partners Operating, LLC 46/29 Y 15-2-3.1 Ellen J. Harness, single SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Mary Lou Allen, matried, dealing in her separate property SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Stone Coal Resources, LLC SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Stone Coal Resources, LLC SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code 522-6-8			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
TH Exploration, LLC American Petroleum Partners Operating, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC SWN Production Company, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC WV Code 522-6-8 At least 1/8th per WV Code 522-6-8 At least 1/8th per 1100/223 Output WV Code 522-6-8 At least 1/8th per WV Code 522-	E	12-9-13	Greenbrier Royalty Fund II, LLC	SWN Production Company, LLC		1210/658	0.00%
American Petroleum Partners Operating, LLC SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Mary Lou Allen, matried, dealing in her separate property SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Stone Coal Resources, LLC SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Stone Coal Resources, LLC SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 B2 15-3-25 Patricia A. Bennett and Dora Jean Cunningham, as joint tenants with right of sruvivorship Bonnie L. Strautmann and Feffrey A. Strautmann, her husband Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code 522-6-8	W	15-1-13	Bounty Minerals, LLC	TH Exploration, LLC		1025/587	0.00%
Y 15-2-3.1 Ellen J. Harness, single SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Mary Lou Allen, married, dealing in her separate property SWN Production Company, LLC at least 1/8th per 1100/213 0.0 WV Code 522-6-8 Stone Coal Resources, LLC SWN Production Company, LLC at least 1/8th per 1100/227 0.0 WV Code 522-6-8 B2 15-3-25 Patricia A. Bennett and Dora Jean Cunningham, as joint tenants with right of sruvivorship Bonnie L. Strautmann and Feffrey A. Strautmann, her husband Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. SWN Production Company, LLC at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code 522-6-8 Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code 522-6-8			TH Exploration, LLC	American Petroleum Partners Operating, LLC		45/146	
Mary Lou Allen, married, dealing in her separate property SWN Production Company, LLC SWN Production Company, LLC at least 1/8th per WV Code §22-6-8 at least 1/8th per 1100/227 0.0 WV Code §22-6-8 Stone Coal Resources, LLC SWN Production Company, LLC at least 1/8th per WV Code §22-6-8 WV Code §22-6-8 B2 15-3-25 Patricia A. Bennett and Dora Jean Cunningham, as joint tenants with right of sruvivorship WV Code §22-6-8 Bonnie L. Strautmann and Feffrey A. Strautmann, her husband Chesapeake Appalachia, L.L.C. SWN Production Company, LLC at least 1/8th per WV Code §22-6-8 Tool626 0.0 WV Code §22-6-8 SWN Production Company, LLC at least 1/8th per WV Code §22-6-8 Tool626 0.0 WV Code §22-6-8 Tool630 0.0 WV Code §22-6-8			American Petroleum Partners Operating, LLC	SWN Production Company, LLC		46/29	
Stone Coal Resources, LLC SWN Production Company, LLC SWN Production Company, LLC at least 1/8th per 1000/227 0.0 WV Code 522-6-8 WV Code 522-6-8 B2 15-3-25 Patricia A. Bennett and Dora Jean Cunningham, as joint tenants SWN Production Company, LLC with right of sruvivorship Bonnie L. Strautmann and Feffrey A. Strautmann, her husband Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC at least 1/8th per 700/630 0.0 WV Code 522-6-8 Thacker and Linda M. Thacker, his wife Chesapeake Appalachia, L.L.C. at least 1/8th per 700/630 0.0 WV Code 522-6-8	Y	15-2-3,1	Ellen J. Harness, single	SWN Production Company, LLC		1100/220	0.00%
B2 15-3-25 Patricia A. Bennett and Dora Jean Cunningham, as joint tenants WV Code §22-6-8 WV Code §22-6-8 Bonnie L. Strautmann and Feffrey A. Strautmann, her husband Chesapeake Appalachia, L.L.C. at least 1/8th per WV Code §22-6-8 Chesapeake Appalachia, L.L.C. SWN Production Company, LLC 33/110 Edward F. Thacker and Linda M. Thacker, his wife Chesapeake Appalachia, L.L.C. at least 1/8th per 700/630 0.0			Mary Lou Alten, married, dealing in her separate property	SWN Production Company, LLC		1100/213	0.00%
with right of sruvivorship Bonnie L. Strautmann and Feffrey A. Strautmann, her husband Chesapeake Appalachia, L.L.C. at least 1/8th per 700/626 0.0 WV Code §22-6-8 WV Code §22-6-8 Chesapeake Appalachia, L.L.C. SWN Production Company, LLC 33/110 Edward F. Thacker and Linda M. Thacker, his wife Chesapeake Appalachia, L.L.C. at least 1/8th per 700/630 0.0 WV Code §22-6-8			Stone Coal Resources, LLC	SWN Production Company, LLC		1100/227	0.00%
Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC 33/110 Edward F. Thacker and Linda M. Thacker, his wife Chesapeake Appalachia, L.L.C. at least 1/8th per 700/630 0.0 WV Code §22-6-8	B2	15-3-25		SWN Production Company, U.C		1051/198	0.00%
Edward F, Thacker and Linda M. Thacker, his wife Chesapeake Appalachia, L.L.C. at least 1/8th per 700/630 0.0 WV Code §22-6-8			Bonnie L. Strautmann and Feffrey A. Strautmann, her husband	Chesapeake Appalachia, L.L.C.	The state of the s	700/626	0.00%
WV Code 522-5-8			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
What was a state of the state o			Edward F, Thacker and Linda M. Thacker, his wife	Chesapeake Appalachia, L.L.C.	Committee of the commit	700/630	0.00%
			Chesppeake Appalachia, L.L.C.	SWN Production Company, LLC	The same of the sa	33/110	

EXHIBIT "A" BW Edge MSH 10H

Marshall County, West Virginia

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

Tract	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
		James W. Thacker and Linda L. Thacker, husband and wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	703/169	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	WV code 322-0-0	33/110	
		Charles C. Thacker, married and doing business in his sole and separate property	Chesapeake Appalachia, L.I.C.	at least 1/8th per WV Code §22-6-8	704/199	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Charles V. Eller, widower, through Charles Walter Eller, his agent and Attorney-in-Fact	Chesapeake Appalachía, L.L.C.	at least 1/8th per WV Code §22-6-8	828/93	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
J2	15-6-5	Gary W. Strope and Rickee J. Fitzsimmons Strope, husband and wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	690/308	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	*** ***********************************	33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		Joshua Wayne Strope, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	690/353	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		Gary Anthony Strope, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	690/356	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	3,1,400,311,40	33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		Kylea Jo Reed a/k/a Kylea Jo Strope, a married woman dealing in her sole and separate property.	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	690/3559	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	WV Code 922-0-8	33/110	

Office of Oil and Gas

EXHIBIT "A" BW Edge MSH 10H

Marshall County, West Virginia

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

Tract	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
M2	15-6-14.1	Rose L. Riley, a widow	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	730/65	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Robert J. Riley, III and Tammy J. Riley, his wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	730/76	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Timothy G. Riley and Judy W. Riley, his wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	730/81	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		David B. Riley and Kelly R. Riley, his wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	730/86	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Ellen W. Riley and Mark D. Flower, her husband	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	734/370	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Wendy Maxim and Corey Maxim, her husband	Chesapeake Appalachia, LLC.	at least 1/8th per WV Code §22-6-8	736/500	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Wendy Rosian, Guardian and Mother of Daniel D. Rufner, for and on behalf of Daniel D. Rufner, a minor child	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	782/403	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Chester A. Burkey, a widower, and Michael J. Burkey and Linda. V. Burkey, his wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	819/127	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Vicki F. Riley, a widow	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	730/70	0.00%
		Chesapeake Appalachia, I. L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		Brent M. Ruffner, a single man	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	736/510	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	

EXHIBIT "A"

BW Edge MSH 10H

Marshall County, West Virginia

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

Tract	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		James B. Riley, Jr. and Cataline E. Riley, his wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	736/515	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
T2	15-6-6.4	Rickee Jo Strope, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	690/323	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Mark Brent Fitzsimmons, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	āt least 1/8th per WV Code §22-6-8	690/371	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
Y3	15-1-19.1	Tatia Josephine Rose, a single woman	Chevron U.S.A. Inc.	at least 1/8th per WV Code §22-6-8	820/167	0.00%
		Chevron, USA, Inc	Chesapeake Appalachia, L.L.C.		32/235	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	

End of Exhibit "A"

*Potentially Impacted Parcels - Parcels that may be impacted during drilling.

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

RECEIVED
Office of Oil and Gas

MAR 7 2025

WV Department of Environmental Protection



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

February 17, 2025

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

RE: SWN's proposed New Well: BW Edge MSH 10H in Marshall County, West Virginia, Drilling under Miller hill Road, Caldwell Hill Road, Stulls Run Road, Lower Stull Run Road, and Irish Ridge Road.

Dear Mr. Brewer:

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

Thank you.

Sincerely,

Andrew Smith

Landman

SWN Production Company, LLC

anh m. Suit

Office of Oil and Gas

MAR 7 2025

WV Department of Environmental Protection

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

	2).	NOTICE CERTI	FICATION		
Date of Notic	ce Certification:		API No. 4	7 051	
21112 01 . 1011	et certification,			s Well No. BW	Edge MSH 10H
				Name: BW Edg	
Notice has	been given:		,, carran	Tame.	,- ,- ,-
	ne provisions in West Virginia Co	le § 22-6A, the Operato	or has provided the re	quired parties v	with the Notice Forms listed
below for the	tract of land as follows:	2	, mas promate and re	quired parties v	with the Protect Forms fisted
State:	West Virginia	LUTALA	Easting:	531,787.227	
County:	051-Marshall	UTM N	Northing:	4,428,555.258	
District:	Sand Hill	Public F	Road Access:	Big Wheeling Cre	eek Road
Quadrangle:	Wheeling	General	ly used farm name:	BW Edge MSH	
Watershed:	Grandstaff Run of Wheeling Creek				
of giving the requirements Virginia Code	equired by subsections (b) and (c) surface owner notice of entry to of subsection (b), section sixteer § 22-6A-11(b), the applicant sha have been completed by the appli	of this article were w I tender proof of and co	bsection (a), section vaived in writing by	ten of this arti	cle six-a; or (iii) the notice
that the Ope	West Virginia Code § 22-6A, the rator has properly served the requect ALL THAT APPLY	Operator has attached p ired parties with the fol	proof to this Notice Clowing:	Certification	OOG OFFICE USE ONLY
☐ I. NOT	TICE OF SEISMIC ACTIVITY		REQUIRED BECA		RECEIVED/ NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SU	RVEY or NO PLA	T SURVEY WAS C	ONDUCTED	RECEIVED
■ 3. NOT	TICE OF INTENT TO DRILL	r D NOTICE NOT	REQUIRED BECA	USE	☐ RECEIVED/
			RY FOR PLAT SUR		NOT REQUIRED
		☐ WRITTEN WA	AIVER BY SURFA TTACH)	CE OWNER	
■ 4. NOT	TICE OF PLANNED OPERATIO	4			RECEIVED
■ 5. PUB	BLIC NOTICE				RECEIVED
■ 6. NOT	TICE OF APPLICATION				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.

En04/11/2025

Certification of Notice is hereby given:

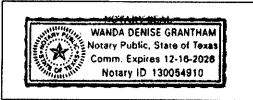
THEREFORE, 1 Brittany Woody , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A. I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

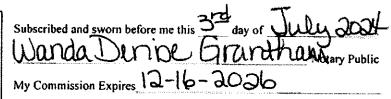
 Well Operator:
 SWN Production Co., LLC
 Address:
 1300 Fort Pierpont Dr., Suite 201

 By:
 Brittany Woody
 Morgantown, WV 26508

 Its:
 Staff Regulatory Specialist
 Facsimile:
 304-884-1690

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





Oil and Gas Privacy Notice:

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

Office of Oalland Gar-

MAR 7 2025

VVV Department of Environmental Protection

API NO. 47- 051

OPERATOR WELL NO. BW Edge MSH 10H

Well Pad Name: BW Edge MSH

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

4705102538

Notice	e Time Requiremen	nt: notice shall be provi	ded no later tha	an the filing date of permit application.		- 30 (
Date o	of Notice: 3	Date Permit Applica	tion Filed: 3	lu		
	PERMIT FOR ANY			PROVAL FOR THE		
	WELL WORK	CONSTR	RUCTION OF	AN IMPOUNDMENT OR PIT		
Delive	ery method pursua	nt to West Virginia Co	ode § 22-6A-10	O(b)		
	PERSONAL	✓ REGISTERED	☐ METH	IOD OF DELIVERY THAT REQUIRES A		
	SERVICE	MAIL		IPT OR SIGNATURE CONFIRMATION		
registe sedimo the sun oil and descrill operat more of well with the sun oil and provide proposes subsect record provise. Code I	ered mail or by any ment control plan requirface of the tract on will gas leasehold being bed in the erosion and or or lessee, in the everal seams; (4) The overk, if the surface transment or pit as described water well, spring or water well, spring or ewater for consumplied well work activity action (b) of this section of this article to the R. § 35-8-5.7.a requirement control plans are trained as the section of this article to the R. § 35-8-5.7.a requirement of the section of the section of this article to the R. § 35-8-5.7.a requirement of the section of the section of the section of this article to the R. § 35-8-5.7.a requirement of the section of the sec	ethod of delivery that recovered by section seven of the vhich the well is or is produced by the proposed sediment control plan sevent the tract of land on we where of record of the subject is to be used for the plantial by the proposed in section nine of the water supply source location by humans or domesty is to take place. (c)(1) It on hold interests in the lanted to be maintained purshe contrary, notice to a lives, in part, that the open	quires a receipt of his article, and to posed to be locked well work, it ubmitted pursual which the well purface tract or tralacement, constitution article; (5) which article animals; and for more than three ands, the applicant to section en holder is not ator shall also p	it as required by this article shall deliver, by personal so or signature confirmation, copies of the application, the the well plat to each of the following persons: (1) The cated; (2) The owners of record of the surface tract or traction of the surface tract is to be used for roads or other land cant to subsection (c), section seven of this article; (3) Toroposed to be drilled is located [sic] is known to be unacts overlying the oil and gas leasehold being developed ruction, enlargement, alteration, repair, removal or abandary surface owner or water purveyor who is known to thousand five hundred feet of the center of the well part (6). The operator of any natural gas storage field withing the tenants in common or other co-owners of interests denote the may serve the documents required upon the person of eight, article one, chapter eleven-a of this code. (2) Note that the confidence is the land to the confidence of the safety Plan ("WSSP") to the surface as provided in section 15 of this rule.	e erosion a owners of acts overly listurbance he coal ow derlain by d by the p indonment the applicated d which is n which the escribed in tescribed in twithstand downer. V	and record of ving the e as vvner, one or roposed of any ant to s used to ne in the ling any V. Va.
☑ Ap	plication Notice [2	WSSP Notice ☐E&	S Plan Notice	☑ Well Plat Notice is hereby provided to:		
	RFACE OWNER(s)			☐ COAL OWNER OR LESSEE	REC	CEIVED
	Barbara Ann & William F	Edge		Name: American Consolidated Natural Resources Attn: Steve Blair	Office of	Oil and Gas
	SS: 1116 Virginia Street Ferry, OH 43935		-	Address: 46226 National Road St. Clairsville OH 43950	12.70	4.00
-	David Wayne Edge		-	COAL OPERATOR	MAR	7 2025
C. 411.	SS: 27 Pine Lane			Name:		
	g WV 26003			Name:	WY UH	ertmen III
		(Road and/or Other Dis	turbance)	Address:	vironmen	tal Protection
Name		(roug and or other bis		☑ SURFACE OWNER OF WATER WELL		
				AND/OR WATER PURVEYOR(s)		
e 1000 1				Name: None		
Name:				Address:		
Addre	SS:					
				OPERATOR OF ANY NATURAL GAS STOR	AGE FIE	LD
		(Impoundments or Pits)		Name:		
Name:				Address:		
Addre	ss:					
			-	*Please attach additional forms if necessary		

WW-6A (9-13) API NO. 47- 051

OPERATOR WELL NO. BW Edge MSH 10H

Well Pad Name: BW Edge MSH

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION 4705102538

Not	ice Time Requiren	nent: notice shall be provi	ded no later tha	an the filing date of permit application.	3 4 8 5 5 1
Dat Not	e of Notice: 3	Date Permit Applica	tion Filed: 3	U	
V	PERMIT FOR AN	V CERTIFI	CATE OF API	PROVAL FOR THE	
-	WELL WORK			AN IMPOUNDMENT OR PIT	
	WELL WORK	CONSTI	KOCTION OF	AN INI OUNDMENT OR TIT	
Del	ivery method purs	uant to West Virginia C	ode § 22-6A-10	O(b)	
П	PERSONAL	☑ REGISTERED	☐ METH	IOD OF DELIVERY THAT REQUIRES A	
7	SERVICE	MAIL	RECE	IPT OR SIGNATURE CONFIRMATION	
sedi the oil a desc ope mor wel imp hav pro- pro- sub- recc pro- Coc	ment control plan re- surface of the tract of and gas leasehold being cribed in the erosion rator or lessee, in the re-coal seams; (4) The lawork, if the surface coundment or pit as do e a water well, spring wide water for consul- posed well work acti- section (b) of this sec- ords of the sheriff re- cipies of the sheriff re- vision of this article to the R. § 35-8-5.7, a re-	quired by section seven of an which the well is or is proving developed by the proposand sediment control plants event the tract of land on we owners of record of the set tract is to be used for the plescribed in section nine of g or water supply source loomption by humans or dome wity is to take place. (c)(1) etion hold interests in the laquired to be maintained pur to the contrary, notice to a liquires, in part, that the ope	this article, and opposed to be loc sed well work, i submitted pursu which the well purface tract or trollacement, const this article; (5) cated within one stic animals; and If more than throunds, the applica suant to section lien holder is no rator shall also p	or signature confirmation, copies of the application the well plat to each of the following persons: (1) ated; (2) The owners of record of the surface tract if the surface tract is to be used for roads or other later to subsection (c), section seven of this article; to propose to be drilled is located [sic] is known to be acts overlying the oil and gas leasehold being deveruction, enlargement, alteration, repair, removal or Any surface owner or water purveyor who is known thousand five hundred feet of the center of the west (6). The operator of any natural gas storage field the tenants in common or other co-owners of interest that may serve the documents required upon the personal traction of any natural gas storage field that the provide the Well Site Safety Plan ("WSSP") to the gas provided in section 15 of this rule.	The owners of record of or tracts overlying the and disturbance as (3) The coal owner, e underlain by one or eloped by the proposed abandonment of any n to the applicant to ell pad which is used to within which the sts described in son described in the) Notwithstanding any e landowner. W. Va.
			&S Plan Notice	□ Well Plat Notice is hereby provided to: □ COAL OWNER OR LESSEE	
	URFACE OWNER ne: Edith Folmer Trust IN			Name:	
	ress: 4206 SW 13th Av		-	Address:	
	Coral FL 33914		_	1441033	RECEIVED
	ne: Wheeling Power Con	npany	_	□ COAL OPERATOR	Office of Oil and Gas
	ress: 1 Riverside Place			Name:	
2.77	mbus, OH 43215		-	Address:	MAR 7 2025
-	TO A POLICE OF THE PROPERTY OF	(s) (Road and/or Other Di	isturbance)		
_		4-1/1-1-1-1		☐ SURFACE OWNER OF WATER WELL	Wy Department of
				AND/OR WATER PURVEYOR(s)	Environmental Protection
114				Name:	Environment
Nat				Address:	
Adi	dress:		-	110000000	
riu	ui 6331		= 0	□ OPERATOR OF ANY NATURAL GAS S	TORAGE FIELD
П	UREACE OWNER	(s) (Impoundments or Pits	(s)	Name:	
_		(s) (Impoundments of Tit.		Address:	
Ad	dress:		_	2027070	
Au	u1000.		-	*Please attach additional forms if necessary	_
_			_	- read to make the amount of the same of t	

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.

RECEIVED 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/oiland-gas/pages/default.aspx.

Well Location Restrictions

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

WW-6A (8-13) API NO. 47-05102538

OPERATOR WELL NO. BW Edge MSH 10H

Well Pad Name: BW Edge 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 as to the location or construction of the applicant's proposed well work to the Secretary at:

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

MAR 7 2025

Why 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.

Well Pad Name: BW Edge 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.

MAR 7 2025

MAR Protection

API NO. 47-051

OPERATOR WELL NO. BW Edge MSH 10H

Well Pad Name: BW Edge 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 2014 7

Morgantown, WV 26508

Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 14 day of May Notary Public

My Commission Expires

RECEIVED OHIGH OF Tyre Juparutiens of Environmental Protection



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

	tice: 5/14/2024	Date of Pia	nned Entry: 5/21/2024		
Delivery m	ethod pursuant	to West Virginia C	ode § 22-6A-10a		
☐ PERS	ONAL	REGISTERED	☐ METHOD OF DE	LIVERY THAT RE	FOLURES A
SERV		MAIL	RECEIPT OR SIG		
on to the subut no more beneath successive of mand Sedime Secretary, venable the se	reface tract to con the than forty-five of the tract that has fit inerals underlyine ent Control Manu which statement so surface owner to	duct any plat survey days prior to such en iled a declaration pur g such tract in the co- lal and the statutes an shall include contact obtain copies from the	s required pursuant to this a try to: (1) The surface owner suant to section thirty-six, a bunty tax records. The notion and rules related to oil and gat information, including the	rticle. Such notice er of such tract; (2) article six, chapter to be shall include a state as exploration and p	r shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams eventy-two of this code; and (3) any atement that copies of the state Erosic production may be obtained from the age on the Secretary's web site, to
Notice is h	ereby provided t	to:			
SURF.	ACE OWNER(s)	p.	■ COA	L OWNER OR LE	SSEE
Name: Barba	ara Ann & William F. Ed	ge	Name: Ar	nerican Consolidated Natur	al Resources
	116 Virginia Street		Address:	46226 National Road	
Martins Ferry, C			St. Clairsville	OH 43950	
Name: David					
Address: 2			■ MIN	ERAL OWNER(s)	
Wheeling WV 2				rbara Ann & William F. Edg	ge
	Folmer Trust IN CARE	OF: Carol Snyder		7115 Paste Drive	
Cape Coral FL	206 SW 13th Ave		Martins Ferry		
			*please atta	ch additional forms if ne	rcessary
Cape Colai I C					
Notice is I Pursuant to a plat surve	y on the tract of I	ode § 22-6A-10(a), i land as follows:			l operator is planning entry to conduc
Notice is I Pursuant to a plat surve State:	West Virginia Co	ode § 22-6A-10(a), i land as follows:	Approx. Lati	tude & Longitude:	40.015294, -80.630
Notice is I Pursuant to a plat surve State: County:	West Virginia Co y on the tract of I West Virginia	ode § 22-6A-10(a), i land as follows:		tude & Longitude:	Calver com
Notice is I Pursuant to	West Virginia Co y on the tract of I West Virginia Marshall Sand Hill	ode § 22-6A-10(a), i land as follows:	Approx. Lati Public Road Watershed:	tude & Longitude:	40.015294, -80.630 Big Wheeling Creek Road
Notice is I Pursuant to a plat surve State: County: District: Quadrangle Copies of the may be obta Charleston,	West Virginia Coy on the tract of I West Virginia Marshall Sand Hill Wheeling The state Erosion a mained from the Set WV 25304 (304)	and as follows: and Sediment Contro ecretary, at the WV I 1-926-0450). Copies	Approx. Lati Public Road Watershed: Generally use I Manual and the statutes ar Department of Environment	tude & Longitude: Access: ed farm name: ad rules related to o al Protection headquional information r	40.015294, -80.630 Big Wheeling Creek Road Upper Ohio South
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Oil and Gas Privacy Notice:

STATE OF WEST VIRGINIA 47 0 5 1 0 2 5 3 8 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time	Requirement: No	otice shall be provi	ided at least SEVEN (7) da	ays but no more tha	an FORTY-FIVE (45) days prior to
Date of Noti	ce: 5/14/2024	Date of Plan	ned Entry: 5/24/2024		
Delivery me	hod pursuant to	West Virginia Co			
☐ PERSO	NAT D	EGISTERED	□ METHOD OF DE		
SERVIC		MAIL	METHOD OF DE		
SERVIC	E N	AAIL	RECEIPT OR SIG	NATURE CONFIR	RMATION
on to the surf but no more t beneath such owner of min and Sediment Secretary, wh enable the sur	han forty-five day tract that has filed erals underlying st Control Manual a ich statement shal face owner to obta	or any plat surveys s prior to such entral a declaration purs such tract in the count and the statutes and	required pursuant to this a ry to: (1) The surface owner thant to section thirty-six, a anty tax records. The notical d rules related to oil and ga information, including the a	rticle. Such notice er of such tract; (2) article six, chapter to be shall include a st as exploration and r	r shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams twenty-two of this code; and (3) any attement that copies of the state Erosion production may be obtained from the age on the Secretary's web site, to
	E OWNER(s)		■ cox	L OWNER OR LE	SSEE
	Power Company				
Address: 1 Riv			Address		
Columbus OH 431			Address.		
Name:			22.4	40 may 200 7 mg	
Address:			■ MIN	ERAL OWNER(s)	
			Name: Da	vid Wayne Edge	
Name:			Address:	27 Pine Island Road	
Address.			Wheeling WV		
			*please attac	h additional forms if ne	ecessary
Matina in ha	eby given:				
Pursuant to Wa plat survey of State: County:	est Virginia Code on the tract of land West Virginia Marshall	as follows:	Public Road A	ude & Longitude:	40.015294, -80.630 Big Wheeling Creek Road
Pursuant to W	est Virginia Code on the tract of land West Virginia Marshall	as follows:	Approx. Latit Public Road / Watershed:	ude & Longitude: Access:	40.015294, -80.630 Big Wheeling Creek Road Upper Ohio South
Pursuant to Wa plat survey of State: County: District: Quadrangle:	est Virginia Code on the tract of land West Virginia Marshall Sand Hill Wheeling	as follows:	Approx. Latit Public Road A Watershed: Generally use	ude & Longitude: Access: d farm name:	40.015294, -80.630 Big Wheeling Creek Road Upper Ohio South B & W Edge MSH
Pursuant to Wa plat survey of State: County: District: Quadrangle: Copies of the may be obtain Charleston, Wobtained from Notice is her Well Operator	est Virginia Code on the tract of land West Virginia Marshall Sand Hill Wheeling state Erosion and Sed from the Secret V 25304 (304-92) the Secretary by vireby given by:	Sediment Control I tary, at the WV De 6-0450). Copies o visiting www.dep.v	Approx. Latit Public Road A Watershed: Generally use Manual and the statutes an	ude & Longitude: Access: d farm name: d rules related to oil l Protection headquional information re	40.015294, -80.630 Big Wheeling Creek Road Upper Ohio South B & W Edge MSH ill and gas exploration and production parters, located at 601 57th Street, SE, elated to horizontal drilling may be
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Oil and Gas Privacy Notice:

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

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

Notice Time Date of Notice	Requirement: Notice shall be ce: 06/24/2024	provided at least TEN (10) days prior to fling a Date Permit Application Filed:	permit application.
Delivery me	hod pursuant to West Virgir	a Code § 22-6A-16(b)	
☐ HAND	■ CERTIFIED	IAII	
DELIVE		CEIPT REQUESTED	
drilling a hor of this subsection ma	sted or hand delivery, give the izontal well: <i>Provided</i> , That is tion as of the date the notice way be waived in writing by the	east ten days prior to filing a permit application, urface owner notice of its intent to enter upon to otice given pursuant to subsection (a), section to as provided to the surface owner: <i>Provided</i> , how ourface owner. The notice, if required, shall included in onic mail address of the operator and the operator	the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this lude the name, address, telephone number.
	reby provided to the SUR		
and the same of th	Ann & William F. Edge	Name:	
Address: 1116 Martins Ferry, Of		Address:	
the surface of State: County: District: Quadrangle: Watershed:	wher's land for the purpose of wv Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling	(b), notice is hereby given that the undersigned rilling a horizontal well on the tract of land as for the tract of land	531,787.227 4,428,555.258 Grandstaff Run Road BW EDGE
Pursuant to V facsimile num related to hor	nber and electronic mail addr izontal drilling may be obtain	6(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	ed representative. Additional information
Notice is he	reby given by:		
Well Operato	SWN Production Company, LLC	Authorized Representative:	Reid Croft
Address:	1300 Fort Pierpont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite 201
	Morgantown, WV 26508		Morgantown, WV 26508
Telephone:	304-231-8329	Telephone:	304-231-8329
Email: Facsimile:	reid_croft@swn.com	Email: Facsimile:	reid_croft@swn.com

Oil and Gas Privacy Notice:

WW-6A5 (1/12)

Operator Well No. BW EDGE MSH 10H

4705102538

STATE OF WEST VIRGINIA 47 0 3 1 0 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Date of Noti	ce: 06/24/2024 Date	Permit Application Filed:	34	
Delivery me	thod pursuant to West Virgin	ia Code § 22-6A-16(c)	1	
■ CERT	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
he planned required to be drilling of a damages to the d) The notice	t requested or hand delivery, gi- operation. The notice required e provided by subsection (b), se horizontal well; and (3) A pro- he surface affected by oil and gi-	we the surface owner whose lead by this subsection shall in action ten of this article to a subsection sposed surface use and compass operations to the extent the lead of the surface own	and will be used for clude: (1) A copy irface owner who ensation agreeme damages are con	ication, an operator shall, by certified main for the drilling of a horizontal well notice of the of this code section; (2) The information use land will be used in conjunction with the notice containing an offer of compensation for appensable under article six-b of this chapter isted in the records of the sheriff at the time
at the addres	is listed in the records of the she	eriff at the time of notice):		
Vame: Barbara	Ann & William F. Edge	Nam	2.	
		Nam Add		
Address: 1116 Martins Ferry, OF	s Virginia Street 1 43935 eby given:	Add	ess:	
Address: 1116 Martins Ferry, Ob Notice is her Pursuant to V peration on tate: County: District:	eby given: Vest Virginia Code § 22-6A-16(the surface owner's land for the WV Marshall Sand Hill	Add	t the undersigned ntal well on the tra	well operator has developed a planned act of land as follows: 531,787.227 4,428,555.258 Grandstaff Run Road
Address: 1116 Martins Ferry, Ob Notice is her Pursuant to V pperation on State: County: District:	eby given: Vest Virginia Code § 22-6A-16(the surface owner's land for the	Add (c), notice is hereby given the purpose of drilling a horizo UTM NAI	t the undersigned ntal well on the transport of the trans	act of land as follows: 531,787.227 4,428.555.258
Address: 1116 Martins Ferry, Or Notice is her Pursuant to V operation on State: County: District: Quadrangle: Vatershed:	eby given: Vest Virginia Code § 22-6A-16(the surface owner's land for the WV Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling	Add (c), notice is hereby given the purpose of drilling a horizo UTM NAI	t the undersigned ntal well on the tra	act of land as follows: 531,787,227 4,428,555,258 Grandstaff Run Road
Address: 1116 Martins Ferry, Or Notice is her Pursuant to V operation on State: County: District: Quadrangle: Vatershed: This Notice S Pursuant to V o be provide orizontal we urface affect information r	eby given: Vest Virginia Code § 22-6A-16(the surface owner's land for the WV Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(d by W. Va. Code § 22-6A-16(d by Ok. Va. Code § 22-6A-16(d by Ok. Va. Code § 22-6A-16(d by Ok. Va. Code § 23-6A-16((c), notice is hereby given that e purpose of drilling a horizo UTM NAI Public Roa Generally (c), this notice shall include: 0(b) to a surface owner who use and compensation agrees to the extent the damages are any be obtained from the Sec	the undersigned that well on the transport to the undersigned that well on the transport to the transport to the transport to the transport to the understand that the understand the unde	act of land as follows: 531,787.227 4,428,555.258 Grandstaff Run Road BW EDGE 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
Address: 1116 Martins Ferry, Ori Notice is her Pursuant to V operation on State: County: District: Quadrangle: Vatershed: This Notice S Pursuant to W orizontal we orizontal	eby given: Vest Virginia Code § 22-6A-16(the surface owner's land for the WV Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(ed by W. Va. Code § 22-6A-16(ed by W. Va. Code § 22-6A-16(ed by oil and gas operations to elated to horizontal drilling material located at 601 57th Street, Shault.aspx.	(c), notice is hereby given that e purpose of drilling a horizo UTM NAI Public Roa Generally (c), this notice shall include: 0(b) to a surface owner who use and compensation agrees to the extent the damages are any be obtained from the Sec	the undersigned that well on the transport to the undersigned that well on the transport to the transport to the transport to the transport to the understand that the understand the unde	act of land as follows: 531,787.227 4,428.555.258 Grandstaff Run Road BW EDGE 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-
Address: 1116 Martins Ferry, Or Notice is her Pursuant to V operation on State: County; District: Quadrangle: Vatershed: This Notice S Pursuant to V obe provide orizontal we urface affect information r eadquarters,	eby given: Vest Virginia Code § 22-6A-16(the surface owner's land for the WV Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(ed by W. Va. Code § 22-6A-16(ell; and (3) A proposed surface ed by oil and gas operations to elated to horizontal drilling malocated at 601 57th Street, Strault.aspx.	(c), notice is hereby given that the purpose of drilling a horizon UTM NAI Public Road Generally (c), this notice shall include: (c), this notice shall include: (d) to a surface owner who was and compensation agrees to the extent the damages are any be obtained from the Sec E, Charleston, WV 2530	the undersigned that well on the transport to the undersigned that well on the transport to	act of land as follows: 531,787.227 4,428,555.258 Grandstaff Run Road BW EDGE 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-

Oil and Gas Privacy Notice:

STATE OF WEST VIRGINIA 47 0 5 1 0 2 5 3 8 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

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

Notice Time Date of Notice	Requirement: Notice shall be provided at ce: 06/24/2024 Date Per	t least TEN (10) days prior to filing a mit Application Filed:	permit application.
Delivery me	thod pursuant to West Virginia Code § 2	22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVI		QUESTED	
receipt reque drilling a hor of this subsec- subsection m and if availab	V. Va. Code § 22-6A-16(b), at least ten day sted or hand delivery, give the surface own izontal well: <i>Provided</i> , That notice given ction as of the date the notice was provided ay be waived in writing by the surface own tole, facsimile number and electronic mail as	ner notice of its intent to enter upon the pursuant to subsection (a), section tell to the surface owner: Provided, hower. The notice, if required, shall includers of the operator and the operator	ne surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this ude the name, address, telephone number,
	reby provided to the SURFACE OW g Power Company	A Secretary of the Control of the Co	
Address: 1 Ri		Name: Address:	
Columbus, OH 4		Address.	
State: County: District: Quadrangle:	wner's land for the purpose of drilling a ho WV Marshall Sand Hill Wheeling, WV-OH	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	531,787.227 4,428,555.258 Grandstaff Run Road BW EDGE
Watershed:	Grandstaff Run of Wheeling	→	
Pursuant to facsimile nur related to hor	Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the crizontal drilling may be obtained from the 157 th Street, SE, Charleston, WV 25304 (2007)	operator and the operator's authorized Secretary, at the WV Department of	ed representative. Additional information f Environmental Protection headquarters,
Notice is he	reby given by:		
Well Operato	T: SWN Production Company, LLC	Authorized Representative:	Reid Croft
Address:	1300 Fort Pierpont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite 201
	Morgantown, WV 26508		Morgantown, WV 26508
Telephone:	304-231-8329	Telephone:	304-231-8329
Email: Facsimile:	reid_croft@swn.com	Email: Facsimile:	reid_croft@swn.com

Oil and Gas Privacy Notice:

WW-6A5 (1/12)

Operator Well No. BW EDGE MSH 10H

STATE OF WEST VIRGINIA 47 0 5 1 0 2 5 3 8 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Date of Noti	Requirement: notice shall be provide: Online Date Perm	nit Application Filed:	34	таррисацоп.
Delivery me	thod pursuant to West Virginia Co	de § 22-6A-16(c)		
■ CERTI	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipthe planned required to be drilling of a damages to the damages to the drilling of notice. Notice is her (at the address Name: Wheelin Address: 1 Riverse	trequested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A proposed the surface affected by oil and gas openes required by this section shall be given by provided to the SURFACE OVES listed in the records of the sheriff at a power Company.	e surface owner whose land this subsection shall include the of this article to a surface use and competerations to the extent the diven to the surface owner twento	nd will be used f ude: (1) A copy face owner who asation agreemed lamages are com at the address li	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 apensable under article six-b of this chapter, sted in the records of the sheriff at the time
Columbus, OH 43		Addre	SS:	
Notice is her Pursuant to V operation on		otice is hereby given that	the undersigned	well operator has developed a planned
State: County; District: Quadrangle:	WV Marshall Sand Hill Wheeling, WV-OH	UTM NAD Public Road	83 Easting: Northing: Access:	531,787,227 4,428,555,258 Grandstaff Run Road BW EDGE
State: County: District: Quadrangle:	WV Marshall Sand Hill	UTM NAD Public Road	83 Easting: Northing:	531,787,227 4,428,555,258 Grandstaff Run Road
State: County: District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information r neadquarters,	Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(c), the deby W. Va. Code § 22-6A-10(b) to the light and (3) A proposed surface use are deby oil and gas operations to the delated to horizontal drilling may be located at 601 57 th Street, SE, Commonwealth of the located at 601 50 th Street, SE, Commonwealth of	Public Road Generally us is notice shall include: (1) to a surface owner whose and compensation agreement the damages are cobtained from the Secret	Easting: Northing: Access: ed farm name: A copy of this e land will be ent containing arompensable undergraph.	531,787,227 4,428,555,258 Grandstaff Run Road BW EDGE 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
State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide norizontal we surface affect information r neadquarters, gas/pages/def	Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(c), the d by W. Va. Code § 22-6A-10(b) to the dilt; and (3) A proposed surface use are deby oil and gas operations to the delated to horizontal drilling may be located at 601 57th Street, SE, Cault.aspx.	Public Road Generally us is notice shall include: (1) to a surface owner whose and compensation agreement the damages are contained from the Secret Charleston, WV 25304	Easting: Northing: Access: sed farm name:)A copy of this e land will be ent containing ar ompensable und tary, at the WV (304-926-0450)	531,787,227 4,428,555,258 Grandstaff Run Road BW EDGE code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide norizontal we surface affect nformation r neadquarters, gas/pages/def Well Operato	Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(c), the deby W. Va. Code § 22-6A-10(b) the light and (3) A proposed surface use are deby oil and gas operations to the delated to horizontal drilling may be located at 601 57th Street, SE, Cault.aspx.	Public Road Generally us is notice shall include: (1) to a surface owner whose and compensation agreement the damages are cobtained from the Secret	Easting: Northing: Access: sed farm name:)A copy of this e land will be sent containing arompensable unctary, at the WV (304-926-0450)	531,787,227 4,428,555,258 Grandstaff Run Road BW EDGE 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 www.dep.wv.gov/oil-and-or, Suite 201
State: County: District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information r	Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(c), the d by W. Va. Code § 22-6A-10(b) to dl; and (3) A proposed surface use are ed by oil and gas operations to the delated to horizontal drilling may be located at 601 57th Street, SE. (ault.aspx.)	Public Road Generally us is notice shall include: (1) to a surface owner whose and compensation agreement the damages are contained from the Secret Charleston, WV 25304	Easting: Northing: Access: sed farm name:)A copy of this e land will be ent containing ar ompensable und tary, at the WV (304-926-0450)	531,787,227 4,428,555,258 Grandstaff Run Road BW EDGE code section; (2) The information require used in conjunction with the drilling of a offer of compensation for damages to the article six-b of this chapter. Additions Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and

Oil and Gas Privacy Notice:

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

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

Notice Time Date of Notic	Requirement: Notice shall be provided at ee: 06/21/2024 Date Perr	least TEN (10) days prior to filing a nit Application Filed:	permit application.
Delivery met	hod pursuant to West Virginia Code § 22	2-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		HESTED	
DELIVE	KETOKI KECEIFI KEQ	CESTED	
receipt reques drilling a hori of this subsec subsection ma and if availab	V. Va. Code § 22-6A-16(b), at least ten day ted or hand delivery, give the surface own zontal well: <i>Provided</i> , That notice given pation as of the date the notice was provided by be waived in writing by the surface own le, facsimile number and electronic mail ad	er notice of its intent to enter upon the pursuant to subsection (a), section to the surface owner: <i>Provided, hower</i> . The notice, if required, shall includes of the operator and the operator	the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this ude the name, address, telephone number.
Notice is he	reby provided to the SURFACE OW		
Name: David W		Name:	
Address: 27 Pi Wheeling, WV 26		Address:	
State: County: District: Quadrangle:	vner's land for the purpose of drilling a hor WV Marshall Sand Hill Wheeling, WV-OH	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	531,787.227 4,428,555.258 Grandstaff Run Road BW EDGE
Watershed:	Grandstaff Run of Wheeling		
Pursuant to V facsimile num related to hor	Shall Include: Vest Virginia Code § 22-6A-16(b), this ruber and electronic mail address of the op- zontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (30)	perator and the operator's authorize Secretary, at the WV Department of	ed representative. Additional information
	reby given by:		
	SWN Production Company, LLC	Authorized Representative:	Reid Croft
Address:	1300 Fort Pierpont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite 201
	Morgantown, WV 26508		Morgantown, WV 26508
Telephone:	304-231-8329	Telephone:	304-231-8329
Email: Facsimile:	reid_croft@swn.com	Email: Facsimile:	reid_croft@swn.com

Oil and Gas Privacy Notice:

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	Requirement: notice shall be proces: 06/24/2024 Date	Permit Application Filed:	34
Delivery met	hod pursuant to West Virginia	a Code § 22-6A-16(c)	
■ CERTI	FIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a l damages to the	requested or hand delivery, give operation. The notice required provided by subsection (b), sec norizontal well; and (3) A prop- ne surface affected by oil and gas	e the surface owner whose lan by this subsection shall inclu- tion ten of this article to a sur- osed surface use and compen- s operations to the extent the d	the permit application, an operator shall, by certified d will be used for the drilling of a horizontal well not ide: (1) A copy of this code section; (2) The information of the comparison of the section will be used in conjunction with sation agreement containing an offer of compensation amages are compensable under article six-b of this character at the address listed in the records of the sheriff at the
Notice is her	eby provided to the SURFACI	E OWNER(s)	
	s listed in the records of the sher		
Name: David W		Name:	
Ivallic.			
Address: 27 Pi	ne Lane	Addres	SS:
Address: 27 Pi Wheeling, WV 26	eby given:		
Address: 27 Pl Wheeling, WV 26 Notice is her Pursuant to W operation on State: County:	eby given: /est Virginia Code § 22-6A-16(of the surface owner's land for the WV Marshall	c), notice is hereby given that a purpose of drilling a horizont UTM NAD	the undersigned well operator has developed a planned al well on the tract of land as follows: 83 Easting: 531,787 227 Northing: 4,428,555 258
Address: 27 Pi Wheeling, WV 26 Notice is her Pursuant to W operation on State: County: District:	eby given: /est Virginia Code § 22-6A-16(of the surface owner's land for the WV Marshall Sand Hill	c), notice is hereby given that to purpose of drilling a horizont UTM NAD Public Road	the undersigned well operator has developed a planned al well on the tract of land as follows: 83 Easting: 531,787,227 Northing: 4,428,555,258 Access: Grandstaff Run Road
Address: 27 Pi Wheeling, WV 26 Notice is her Pursuant to W operation on State: County:	eby given: /est Virginia Code § 22-6A-16(of the surface owner's land for the WV Marshall	c), notice is hereby given that to purpose of drilling a horizont UTM NAD Public Road	the undersigned well operator has developed a planned al well on the tract of land as follows: 83 Easting: 531,787 227 Northing: 4,428,555 258
Address: 27 Pi Wheeling, WV 26 Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information of	eby given: /est Virginia Code § 22-6A-16(of the surface owner's land for the wv Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(of the wv) All; and (3) A proposed surface to the work of the wore	c), notice is hereby given that to purpose of drilling a horizont UTM NAD Public Road Generally us c), this notice shall include: (1) (b) to a surface owner whose use and compensation agreement the damages are carry be obtained from the Secretary	the undersigned well operator has developed a planned al well on the tract of land as follows: 83 Easting: 531,787,227 Northing: 4,428,555,258 Access: Grandstaff Run Road
Address: 27 Pl Wheeling, WV 26 Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information the headquarters, gas/pages/def	eby given: /est Virginia Code § 22-6A-16(of the surface owner's land for the WV Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(of the WV) Ed by W. Va. Code § 22-6A-16(of the WV) Ed by Old and gas operations to related to horizontal drilling malocated at 601 57th Street, Second Street S	c), notice is hereby given that is purpose of drilling a horizont UTM NAD Public Road Generally us c), this notice shall include: (1) (b) to a surface owner whose the extent the damages are completed by the obtained from the Secret, Charleston, WV 25304	the undersigned well operator has developed a planner al well on the tract of land as follows: 83
Address: 27 Pl Wheeling, WV 26 Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information in headquarters, gas/pages/def	eby given: /est Virginia Code § 22-6A-16(of the surface owner's land for the WV Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(of by W. Va. Code § 22-6A-16(c), notice is hereby given that to purpose of drilling a horizont UTM NAD Public Road Generally us c), this notice shall include: (1) (b) to a surface owner whose use and compensation agreement the damages are carry be obtained from the Secretary	the undersigned well operator has developed a planner al well on the tract of land as follows: 83 Easting: 531,787 227 Northing: 4.428,555.258 Access: Grandstaff Run Road BW EDGE 1) A copy of this code section; (2) The information receive land will be used in conjunction with the drilling ent containing an offer of compensation for damages compensable under article six-b of this chapter. Additary, at the WV Department of Environmental Prote (304-926-0450) or by visiting www.dep.wv.gov/oii
Address: 27 Pi Wheeling, WV 26 Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information in headquarters,	eby given: /est Virginia Code § 22-6A-16(of the surface owner's land for the WV Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(of the WV) Ed by W. Va. Code § 22-6A-16(of the WV) Ed by Old and gas operations to related to horizontal drilling malocated at 601 57th Street, Second Street S	c), notice is hereby given that is purpose of drilling a horizont UTM NAD Public Road Generally us c), this notice shall include: (1) (b) to a surface owner whose the extent the damages are completed by the obtained from the Secret, Charleston, WV 25304	the undersigned well operator has developed a planner al well on the tract of land as follows: 83 Easting: 531,787 227 Northing: 4.428,555.258 Access: Grandstaff Run Road BW EDGE 1) A copy of this code section; (2) The information receive land will be used in conjunction with the drilling ent containing an offer of compensation for damages compensable under article six-b of this chapter. Additary, at the WV Department of Environmental Prote (304-926-0450) or by visiting www.dep.wv.gov/oi

STATE OF WEST VIRGINIA 4/0310 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

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

Notice Time Date of Notic	Requirement: Notice shall be provided at lease: 06/24/2024 Date Permit	st TEN (10) days prior to filing a	permit application.
Delivery met	hod pursuant to West Virginia Code § 22-6	A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE	RY RETURN RECEIPT REQUE	ESTED	
receipt request drilling a hor of this subsect subsection mand if availab	Va. Code § 22-6A-16(b), at least ten days p sted or hand delivery, give the surface owner of izontal well: <i>Provided</i> , That notice given pur- tion as of the date the notice was provided to may be waived in writing by the surface owner. le, facsimile number and electronic mail address.	notice of its intent to enter upon the suant to subsection (a), section to the surface owner: <i>Provided, how</i> . The notice, if required, shall includes of the operator and the operator.	the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this lude the name, address, telephone number,
	reby provided to the SURFACE OWN! REDITH A TRUST, In Care of: SNYDER CAROL	ER(s): Name:	
Address: 4206		Address:	
CAPE CORAL FI		Address.	
State: County: District:	when's land for the purpose of drilling a horizon WV Marshall Sand Hill	UTM NAD 83 Easting: Northing: Public Road Access:	531,787.227 4,428,555.258 Grandstaff Run Road
Quadrangle: Watershed:	Wheeling, WV-OH Grandstaff Run of Wheeling	Generally used farm name:	BW EDGE
Pursuant to N facsimile nur related to hor	Shall Include: West Virginia Code § 22-6A-16(b), this not ober and electronic mail address of the oper izontal drilling may be obtained from the Se 57th Street, SE, Charleston, WV 25304 (304)	rator and the operator's authorized cretary, at the WV Department of	ed representative. Additional information of Environmental Protection headquarters,
	reby given by:		
Well Operato	T: SWN Production Company, LLC	Authorized Representative:	Reid Croft
Address:	1300 Fort Pierpont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite 201
	Morgantown, WV 26508	-	Morgantown, WV 26508
Telephone:	304-231-8329	Telephone:	304-231-8329
Email: Facsimile:	reid_croft@swn.com	Email:	reid_croft@swn.com

Oil and Gas Privacy Notice:

Operator Well No. BW EDGE MSH 8H

4705102538

STATE OF WEST VIRGINIA 4 7 U 3 1 U 2 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

	700000	rmit Application F		
Delivery me	thod pursuant to West Virginia (Code § 22-6A-16(c)	6	
	IFIED MAIL RN RECEIPT REQUESTED	☐ HAND DELIVER	Y	
the planned required to be drilling of a damages to the	t requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section horizontal well; and (3) A proposition of the surface affected by oil and gas or the surface affected by oil and gas of the surface affected	he surface owner way this subsection show ten of this article ed surface use and perations to the exte	hose land will be used for all include: (1) A copy to a surface owner whose compensation agreement and the damages are com	ication, 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
(at the address Name: FOLMA	reby provided to the SURFACE C ss listed in the records of the sheriff R EDITH A TRUST, In Care of: SNYDER CAROL	at the time of notic	e): Name:	
Address: 4206			Address:	
CAPE CORAL FL	. 33914			
Pursuant to V	Vact Virginia Codo S 22 64 16(a)			
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Oil and Gas Privacy Notice:



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager
District Four
Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

Alanna J. Keller, P.E. Deputy Secretary of Transportation Deputy Commissioner of Highways Jimmy Wriston, P. E.
Secretary of Transportation
Commissioner of Highways

September 5, 2024

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 BW Edge Well Pad, Marshall County BW Edge MSH 10H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2015-0140 which has been issued to SWN Production Company, LLC for access to the State Road for a well site located off Marshall County Route 5/1 SLS MP 0.90.

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 March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Lacy D. Pratt

Central Office O&G Coordinator

Lacy D. Proutt

Cc: Brittany Woody

SWN Production Company, LLC

OM, D-6

File

Attachment VI Frac Additives

Product Name	Product Use	Chemical Name	CAS Number
HCL	Solvent	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
FSTI-CI-02	Corrosion Inhibitor	2-Butoxyethanol	111-76-2
		Ethylene glycol	107-21-1
		N,N-Dimethylformamide	68-12-2
		benzyl chloridequaternized	72480-70-7
		Cinnamaldehyde	104-55-2
		Isopropyl alcohol	67-63-0
		Poly(oxy-1,2-ethanediyl), .alpha(nonylphenyl)omegahydroxy-	9016-45-9
		1-Decanol	112-30-1
		1-Octanol	111-87-5
		Triethyl phosphate	78-40-0
resistates no	Inna Cantanal		6381-77-7
erriplex 80	Iron Control	Sodium Erythorbate	
Tolicide 4Frac	Biocide	Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8
		Quaternary ammonium compounds	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
Plexslick 930	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Oleic Acid Diethanolamide	93-83-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Ammonium Chloride	12125-02-9
		Sodium Chloride	7647-14-5
	6 1 1 1 1 1 1 1		15827-60-8
Plexaid 655NM	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	12-7-30 NOV W
		Water	7732-18-5
Plexslick V996	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Sodium Chloride	7647-14-5
Plexaid 655WG	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
		Glycerin	67-56-1
Clearal 270	Biocide	Glutaraldehyde	111-30-8
	biocide		7173-51-5
		Didecyldimethylammonium Chloride	68424-85-1
		Quaternary Ammonium compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	
		Ethanol	64-17-5
		Water	7732-18-5
StimSTREAM SC 398 CW	Scale Inhibitor	Ethylene glycol	107-21-1
		CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		Water	7732-18-5
StimSTREAM FR 9800	Friction Reducer	Chemstream-Alkane-00001	Chemstream-Alkane-00001
		Chemstream-Polymer-00001	Chemstream-Polymer-00001
		Ethoxylated alcohols (C12-16)	68551-12-2
		Water	7732-18-5
StimSTREAM FR 2800	Francis Bullion		64742-47-8
	Friction Reducer	Distillates (petroleum), hydrotreated light	
		Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9
		Water	7732-18-5
StimSTREAM FR 9725	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium Chloride	12125-02-9
		Water	7732-18-5
StimSTREAM SC 398 C	Scale Inhibitor	CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		4. A PROPERTY TO A CONTROL OF CON	7732-18-5

As of 7/5/2023

WW-6A7 (6-12)

WELL NO: BW Edge MSH 10H
signature: Buttany Woody

WELL RESTRICTIONS CHECKLIST

	HORIZONTAL 6A WELL
ell Restri	* Pad Built 8/1/15
	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
	DEP Waiver and Permit Conditions
	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
	DEP Waiver and Permit Conditions
	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
/	DEP Waiver and Permit Conditions
$\sqrt{}$	At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
	Surface Owner Waiver and Recorded with County Clerk, OR
	DEP Variance and Permit Conditions
	At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
	Surface Owner Waiver and Recorded with County Clerk, OR
	DEP Variance and Permit Conditions
	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
	Surface Owner Waiver and Recorded with County Clerk, OR
	DEP Variance and Permit Conditions