

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Friday, November 13, 2020 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 1H 47-051-02343-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief

Operator's Well Number: BW EDGE MSH 1H

Farm Name: WILLIAM F EDGE JR & BARA

U.S. WELL NUMBER: 47-051-02343-00-00

Horizontal 6A New Drill Date Issued: 11/13/2020

PERMIT CONDITIONS

4705102343

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

CONDITIONS

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

API Number:
DI Number

PERMIT CONDITIONS

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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.

WW-6B (04/15)

API NO. 47-051	*
OPERATOR W	ELL NO. BW Edge MSH 1H
Well Pad Nam	ne: 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 F	Production C	o., LLC	4945	12924	051-Mars	hal Sand Hill	Wheeling
•				Ope	rator ID	County	District	Quadrangle
2) Operator's V	Vell Number	BW Edge	MSH 1H	<u> </u>	Well Pad	Name: BV	V Edge MSH	
3) Farm Name/	Surface Own	ner: William F. Ed	ige, Jr. & Bart	oara Edge	Public Roa	d Access: E	Big Wheeling (Creek Road
4) Elevation, cu	irrent ground	d: 1254'	E	levation	ı, proposed j	post-constru	action: 1254'	
5) Well Type	(a) Gas Other	x	Oil _		Unde	orground Sto	orage	
	(b)If Gas	Shallow	X		Deep			
	(0)11 040	Horizontal	x			AN 1	0/9/2020	
6) Existing Pad	: Yes or No	Yes					0/0/2020	
7) Proposed Ta- Target Formation-	rget Formati Marcellus, Up-Di	ion(s), Deptho p well to the North,	(s), Antic Target Top 1	cipated	Thickness at Thickness at	nd Expected /D- 6396', Anticip	d Pressure(s): pated Thickness- 52',	Associated Pressure- 4157
8) Proposed To	tal Vertical	Depth: 6380)'					
9) Formation at			Marcellu	s				
10) Proposed T	otal Measur	ed Depth:	15555'					
11) Proposed H	orizontal Le	eg Length:	6197.23					
12) Approxima	te Fresh Wa	ter Strata Dej	oths:	615'				
13) Method to l	Determine F	resh Water D	epths:	Nearby	Water We	II		
14) Approxima	te Saltwater	Depths: 13	86' Salin	ity Prof	ile Analysis			
15) Approxima	te Coal Sear	n Depths: 7	41'					
16) Approxima				ine, ka	rst, other):	None that v	ve are aware o	of.
17) Does Propo directly overlyi					Yes		No ×	
(a) If Yes, pro	vide Mine I	nfo: Name:						
		Depth						
		Seam:						RECEIVED Office of Oil and Gas
		Owner	•					OCT 1 3 2020

WW-6B (04/15) API NO. 47- 051

OPERATOR WELL NO. BW Edge MSH 1H

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#	100'	100'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	800'	800'	636 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	2032'	2032'	639 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	15555'	15555'	Tail 27515s/ 100' Inside Intermediate
Tubing							
Liners							

10/9/2020

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"	0.380	2730	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	1.19/5% Excess
Tubing							
Liners							

PACKERS

Kind:			
Sizes:			
Depths Set:		RECEIVE) _
		Office of Oil and	d Gas

OCT 1 3 2020

WW-6B (10/14)

API NO. 47-0517 0_5 1 0 2 3 4 3

OPERATOR WELL NO. BW Edge MSH 1H

Well Pad Name: BW Edge MSH

7/1 9*1*29*1*2020

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

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 2)' 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 method: 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 formatior. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prer may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production unites, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 13.88
- 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 ***

25) Proposed borehole conditioning proced ires:

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

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

			CEMENT	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE	><	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
(FRESHWATER)	5001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL		INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
PROTECTION 3 10	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
1	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D047	FP 28L	><	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	><	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	><	><	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETARY
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
			CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
		SS-11W	CJ880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	\times	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	><	><	CJX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
		\supset	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATIC AMIDE POLYMER	PROPRIETARY
PRODUCTION	D255	\supset	\times	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
			CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
		FL-66	CJ501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	X	VISCOSIFIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1

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OCT 1 3 2020

Proposed Drilling Program Southwestern Energy Company Re-entry Rig: TBD **BW EDGE MSH 1** Well: Prospect: Marcellus Shale PANHANDLE FIELD WET Field: WV State: MARSHALL County: -80. j275 Longitude 40.0065 Latitude SHL: 40.0267 Latitude -80, j440 Longitude BHL: 1.254 ft MSL KB: 26 ft AGL GL Elev: **KB Elev:** 1,280 ft MSL 100 ' to 820 ' Air/Mist ROD TOC Lead @ 1,767 'MD PROD TOC Tail @ 5,021 'MD 820 'to 2,052 ' Air/Mist TUBULAR DETAIL Planned Interval Casing Size Weight Grade Casing tring (Min) (Min) From To (in) 2,052 to 5,665 J-55 0 ' 100 94.0# Cond ctor 20 Air/Mist 800 ' 0 " J-55 Surf/Co al Csg 13,375 54.4# 2,032 ' J-55 0' 9.625 36.0# Interm d Csg 15,555 0' 20.0# P-110 HP 5.5 Product on Csg CEMENT DETAIL Class Density Sacks 19.3 151 Conductor: A 15.6 636 Surface: 15.6 Intermediate: 639 A 15.6 Production: 2751 A TD at 5,665 ' Freshwater Depth - 615 'TVD 5,665 'to 7,002' KOP at 5,665 ' ID 12.0-12.5 ppg Coal Depth - 741 'TVD Saltwater Depth - 1,386 'TVD TVD - 6,380 ' TMD - 15,555 ' RECEIVED e of Oil and Gas Office of 9/29/2020 OCT 3 2020 WV Department of Environmental Protection WV Day 15,555 ' MD TD at 6,288 'TVD 6,380 ' Target Center EOB at 7,002 'MD 7,002 'to 15,555' EOB at 6,380 'TVD 12.5-13.5 ppg Created by: C R Hall on 09/29/2020



4705102343

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

July 13, 2020

Ms. Laura Adkins Office of Oil & Gas 601 57th Street Charleston, WV 25304

RE: Proposed New Well: B W Edge MSH 1H

Dear Ms. Adkins

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on the Edge's property, in Sand Hill District, Marshall County, West Virginia.

If you have any questions or desire additional information, please me at 304-884-1613.

Thank you.

Sincerely,

Brittany Woody

Buttary Woody

Senior Regulatory Analyst

Southwestern Energy Production Company, LLC

Office of Oil and Gas

OCT 1 3 2020

WV Department of Environmental Protection

Rz W+°

API Number 47 - 051

Operator's Well No. BW Edge MSH 1H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Constant Name SWN Production Co. LLC	OP Code 494512924	
Operator Name SWN Production Co., LLC Watershed (HUC 10) Grandstaff Run of Wheeling Creek Qu		
	uadrangle Wheeling proposed well work? Yes ✓ No	
Do you anticipate using more than 5,000 bbls of water to complete the Will a pit be used? Yes No V	proposed well work: Yes [V] No	
If so, please describe anticipated pit waste:		
Will a synthetic liner be used in the pit? Yes No	If so, what ml?	
Proposed Disposal Method For Treated Pit Wastes:		
Land Application		
 Underground Injection (UIC Permit Number 		
Reuse (at API Number At the next anticpiated well)
Off Site Disposal (Supply form WW-9 for d	hisposal location)	
Other (Explain recovery and solidification on	site	
Will closed loop system be used? If so, describe: Yes- See Attachmen	t 3A	
Drilling medium anticipated for this well (vertical and horizontal)? Air		I with SOBM from KOP to TO
-If oil based, what type? Synthetic, petroleum, etc. Synthetic O		
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? (
-Landfill or offsite name/permit number? Meadowfill SWF-1032, SI	hort Creek SWF-1034, Carbon Limestone MSWL018781,	Wetzel County 1021
Apex Sanitary Landtill Ub-U8438, Brooke Co SWF-1U Permittee shall provide written notice to the Office of Oil and Gas of an	13,	
West Virginia solid waste facility. The notice shall be provided within where it was properly disposed.	24 hours of rejection and the permittee sh	all also disclose
1 certify that I understand and agree to the terms and condition on August 1, 2005, by the Office of Oil and Gas of the West Virginia E provisions of the permit are enforceable by law. Violations of any tellaw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examin application form and all attachments thereto and that, based on mobtaining the information, I believe that the information is true, acceptually examination of the penalties for submitting false information, including the possibility of forcempany Official Signature Management (Typed Name) Brittany Woody Company Official Title Senior Regulatory Analyst	Department of Environmental Protection. It is a condition of the general permit an an am familiar with the information of those individuals immediately and complete. I am aware that	d/or other applicable on submitted on this ately responsible for there are significant FFICIAL SEAL NGILDER Virginia Jul 20, 2020 ompany, LLC
ist		OCT 1 3 2020
Subscribed and sworn before me this day of	N 20 20	
Jessica L. Van Gilder	Notary Public	WW Drop Intent of Environmental Front
My commission expires 1-20-20		

Operator's Well No. BW Edge MSH 1H

	d 13.88	Prevenetation nF	I
Proposed Revegetation Treatment: Acres Disturbe Lime as determined by pH test min.2 Tons/acre or to compare the compared to t			
Fertilizer type 10-20-20	offect to pri		
Fertilizer amount 600/500	lbs/acre		
Mulch_ Hay/Straw			
Mulch	Tons/acre		
	Seed Mix	tures	
Temporary		Perma	nent
Seed Type Ibs/acre Attachment 3C		Seed Type	lbs/acre
tudomioni oo			
			The state of the s
	r land application (unless engineered plans includ	ling this info have been
Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied creage, of the land application area.	l, include dimensio		
Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied creage, of the land application area. Photocopied section of involved 7.5' topographic sl	l, include dimensioneet.		
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Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied creage, of the land application area. hotocopied section of involved 7.5' topographic slan Approved by:	l, include dimensioneet.		dimensions (L x W), and area in RECEIVED Office of Oil and Ga
Attach: Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied creage, of the land application area. Photocopied section of involved 7.5' topographic site. Plan Approved by: **Turble Comments:** Comments:**	l, include dimensioneet.		RECEIVED Office of Oil and Ga OCT 1 3 2020
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied creage, of the land application area. Photocopied section of involved 7.5' topographic slean Approved by:	l, include dimensioneet.		RECEIVED Office of Oil and Ga OCT 1 3 2020

Attachment 3A

CLOSED LOOP SYSTEM

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

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

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

AIR DRILLING INTERVALS

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

LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

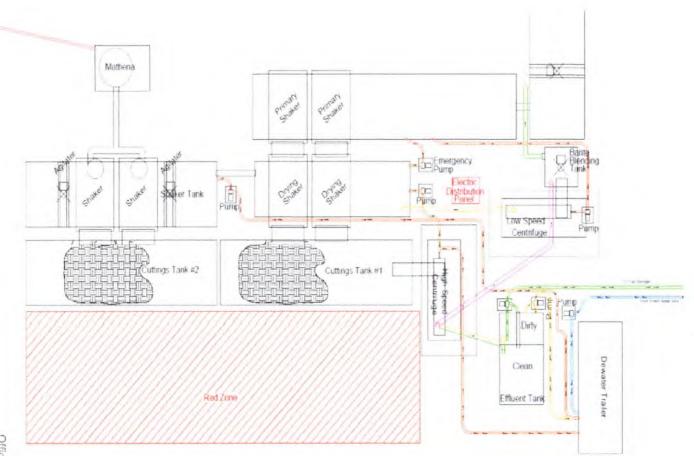
When drilling is converted to liquids drilling, the shale gas separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached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

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Solids Control Layout





Office of Oil and Gas

Attachment 3B

Drilling Mediums

<u>Surface/Coal(if present)/Freshwater Intervals:</u>

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present):

Air

Brine (In Gas Storage areas)

Organophilic Bentonite

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

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Attachment 3C



WVD Seeding Specification



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

*unless otherwise dictated by soil test results

(please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES		
Seed Mixture: ROW Mix	SWI	N 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

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

Seed Mixture: Wetland Mix	SWN Supplied
VA Wild Ryegrass	20%
Annual Ryegrass	20%
Fowl Bluegrass	20%
Cosmos 'Sensation'	10%
Redtop	5%
Golden Tickseed	5%
Maryland Senna	5%
Showy Tickseed	5%
Fox Sedge	2.5%
Soft Rush	2.5%
Woolgrass	2.5%
Swamp Verbena	2.5%
Apply @ 25lbs per acre	Apply @ 50lbs per acre
April 16th- Oct. 14th NO FERTILIZER OR L	Oct. 15th- April 15th

3 2020

Rev.1/13/2020

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

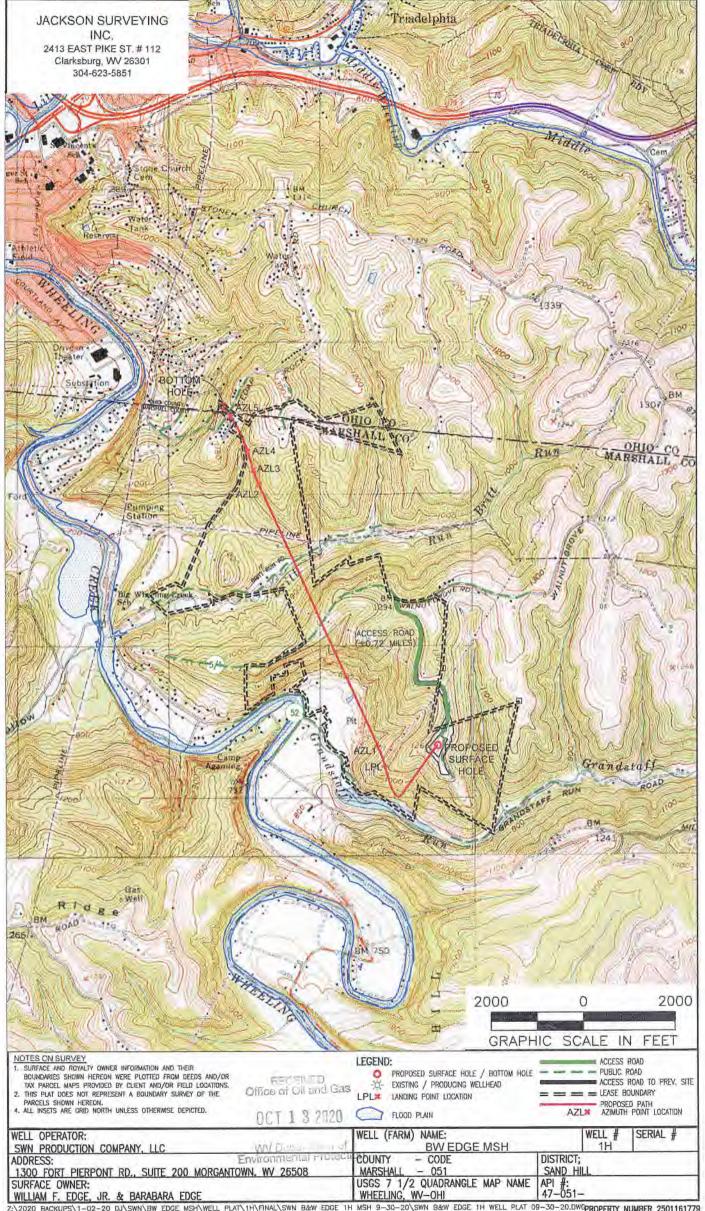


SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

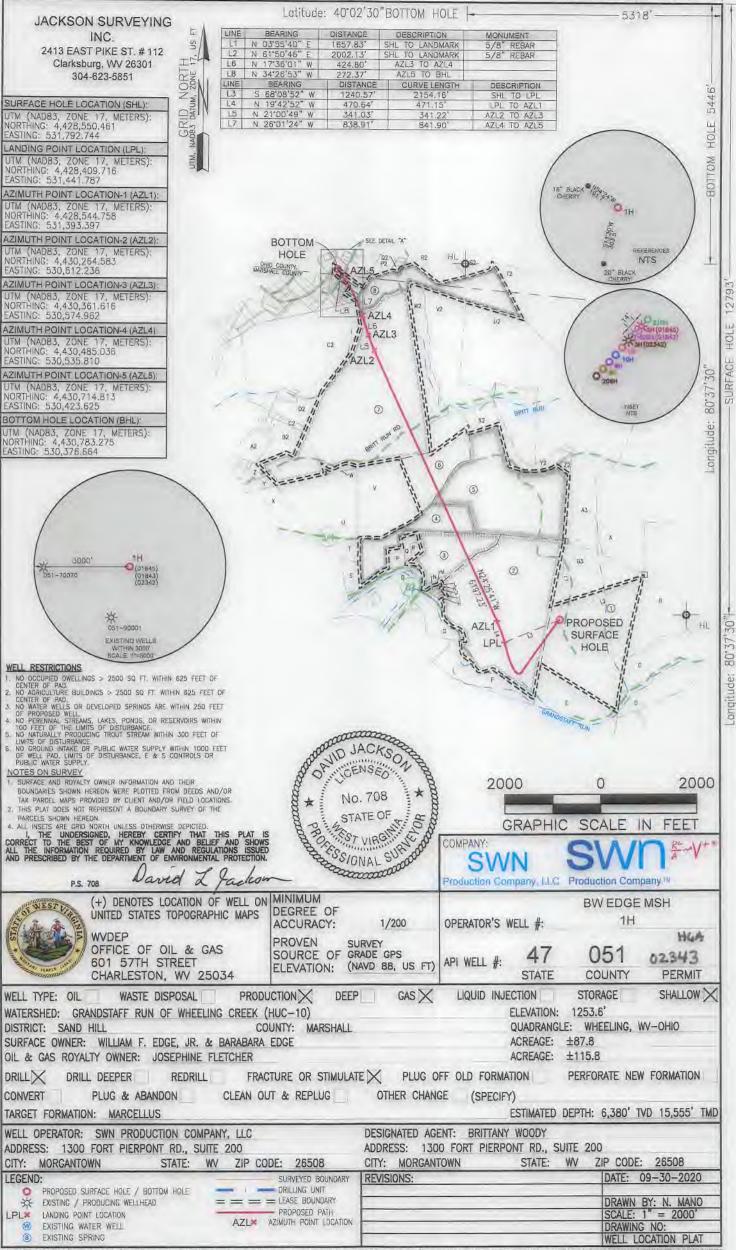
API NO. 47-XXX-XXXXX
WELL NAME: BW Edge MSH 1H
Wheeling QUAD
Sand Hill DISTRICT
Marshall COUNTY, WEST VIRGINIA

Submitted by:		
Name: Brittany Woody Suttany Woody	Date: <u>5/28/2020</u>	
Title: Senior Regulatory Analyst	SWN Production Co., LLC	
Approved by: Name: fur Unilologe Title: Oil + Gas (uspector	Date: 6/24/2020	Office of Oil and Gas OCT 1 3 2020 WV Department of Environmental Protection
Approved by: Name:	Date:	
Title:		

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL



ongitude:



JACKSON SURVEYING

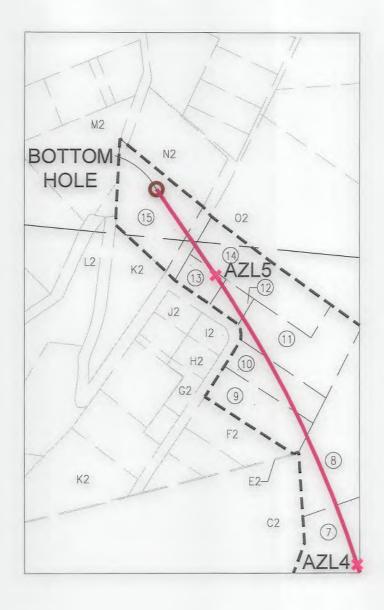
INC. 2413 EAST PIKE ST. #112 Clarksburg, WV 26301 304-623-5851

TRACT	SURFACE OWNER (S) /ROYALTY OWNER (R)	TAX PARCEL
1	EDGE WILLIAM F JR & BARBARA ANN ET AL (S) / FLETCHER JOSEPHINE (R)	12-9-08
TRACT	SURFACE OWNER	TAX PARCEL
2	FOLMAR TRUST AGREEMENT DATED THE 23RD DAY OF MAY, 2019 (S)	12-1-19
3	ADASE GEORGE & LAURIE (S)	12-1-28
4	ADASE GEORGE & LAURIE (S)	12-1-29
5	SCHELLHASE MARK A ET UX (S)	12-1-18
6	LEASURE ANNA (S)	12-1-30
7	COFFIELD MICHAEL L & TYLENE R (S)	12-1-10
8	HARTMAN WALTER L ET UX (S)	12-1-10.1
9	SNYDER LONNIE A (S)	12-1A-83
10	SNYDER LONNIE A (S)	12-1A-83.2
11	STALEY DAVID A ET UX (S)	12-1A-77
12	DAUGHERTY JERRY RAY ET UX (S)	12-1A-78
13	MORRISON WILLIAM J ET UX (S)	12-1A-79
14	MORRISON WILLIAM J ET UX (S)	12-1A-16
15	PAETZOLD DOUGLAS GREIG AND KATHRYN ELIZABETH (S)	6-T17B-319

ADJOINING OWNERS TABLE				
TRACT	Surface owners	TAX PARCEL		
Α	GIZA CHESTER A ET UX	12-1-16		
В	GIZA CHESTER A ET UX	12-2-14		
c	ISALY ROBERT A SR EST	12-2-13		
D	GIBSON WILLIAM E	12-9-12		
E	ISALY ROBERT A SR EST	12-9-09		
F	WHEELING CREEK WATERSHED COMM	12-9-6.1		
G	HADSELL SANDRA L	12-1-20		
Н	DUFF JAMES E & BROOKE L CAPP	12-1-22.1		
1	DUFF JAMES E & BROOKE L CAPP	12-1-22		
J	FRAZIER GREGORY SCOTT	12-1-23		
K	FRAZIER GREGORY SCOTT	12-1-27.1		
L	COX JOSHUA N	12-1-27.2		
M	MUFFENY PAULA SUE	12-1-27		
N	COX JOSHUA N	12-1-26		
0	MUFFENY PAULA SUE	12-1-25		
p	DAVIS NORMAN W ET UX	12-1-29.1		
Q	GRAY JOHN A ET UX	12-1-28.2		
R	ALLEN MARK G & CHERYL L	12-1-28.1		
5	WHARTON PETER R ET AL	12-1-34		
T	ESTEP DOUGLAS J & LINDA R	12-1-33.1		
U	MERCER DARICK BENTON & RENEE ANNE	12-1-32		
V	GIZA CHESTER A ET UX	12-1-31		
-Cto	CONSOLIDATION COAL COMPANY	20.2.200		
W	MURRAY ENERGY C/O LAND DEPT	12-1-10.2		
X	MARPLE JEFFREY J & BARBARA J	12-1-32,1		
Y	HIGGINS CONSTANCE L - LIFE	12-1-7.3		
Z	RUNKLE SHERRY L	12-1-7.2		
A2	SLIGAR KAREN SCHENK & TERRY B	12-1-5.2		
B2	SLIGAR KAREN SCHENK	12-1-5		
C2	HAMILTON MARY SCHENK & GARY P	12-1-5.1		
D2	HAMILTON MARY SCHENK & GARY P	12-1-5.4		
E2	ENGINEERED FOUNDATION SOLUTION PLLS	12-1A-94		
F2	ZDONCZYK ROBIN G	12-1A-83,1		
G2	NICKERSON TERRY	12-1A-90		
H2	GRAHAM KEVIN L	12-1A-82		
12	ROSS KIMIKO	12-1A-81		
J2	ROSS KIMIKO	12-1A-80		
K2:	MORRISON MARCIANN	12-1A-15		
12	MCCLELLAND SHARLYN A - LIFE	12-1A-18		
M2	BERISFORD THEODORE A	6-T17B-309		
N2	JDS INVESTMENTS ILC	6-T17F-1		
02	YOUNG ALBERT R SR	6-T17B-321		
P2	HARTMAN WALTER LAND GLORIA L	6-T17-17		
Q2	HOLMES DANIEL P & LAURA S	6-T17-17.2		
R2	CAPPONE RAYMOND A & KAREN	6-T17-15		
52	BEALL GREGORY W & JILL ANN	6-T17-9.3		
T2	LENZ PATRICK J	12-1-46		
U2	COFFIELD MICHAEL L & TYLENE R	12-1-13		
V2	BARTOLOVICH STEPHEN M	12-1-11		
W2	BARTOLOVICH STEPHEN M	12-1-47		
X2	BARTOLOVICH STEPHEN M	12-1-18.4		
Y2	BARTOLOVICH STEPHEN M	12-1-18.3		
22	SCHELLHASE MARK A & ANDREA	12-1-18.5		
A3	GIZA CHESTER A ET UX	12-1-15		
В3	WHEELING POWER COMPANY	12-9-8.1		

REVISIONS:	COMPANY:	SWN Production Company, LLC	SW Production Cor	npany™
	OPERATOR'S WELL #:	BW EDGE MSH 1H	API #: 47-051-	DATE: 09-30-2020 DRAWN BY: N. MANO
	DISTRICT: SAND HILL	COUNTY: MARSHALL	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT

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



REVISIONS:	COMPANY:	SWN Production Company, LLC	SW Production Cor	npany™
	OPERATOR'S WELL #:	BW EDGE MSH 1H	API #: 47-051-	DRAWN BY: N. MANO
	DISTRICT: SAND HILL	COUNTY: MARSHALL	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT 2

Operator's Well No. BW EDGE MSH 1H

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:

se Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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See Exhibit "A"

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

OCT 1 3 2020

Environmental Probleman

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	Production Company, LLC		
By:	Bailey Brager			
Its:	Landman - SW Appalachia			

EXHIBIT "A"

Attached to and made a part of the State of West Virginia OII and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator BW Edge MSH 1H Marshall and Ohio Counties, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1)	12-0009-0008-0000	Josephine Fletcher f/k/a Josephine Fisher, a married	NPAR, LLC	20.00%	707/584
		woman acting in her sole and separate property	Chevron U.S.A. Inc.		756/332
1			Chesapeake Appalachia, L.L.C.		30/532
			SWN Production Company, LLC		33/110
2)	12-0001-0019-0000	Edith Adell Folmar, a widow	SWN Production Company, L.L.C.	18.00%	932/525
3)	12-0001-0028-0000	George R. Adase and Laurie Adase, his wife	TriEnergy Holdings, LLC	17.00%	696/206
1			NPAR, LLC		24/180
			Chevron U.S.A. Inc.		756/332
1			Chesapeake Appalachia, L.L.C.		30/532
<u></u>			SWN Production Company, LLC		33/110
4)	12-0001-0029-0000	George R. Adase and Laurie Adase, his wife	TriEnergy Holdings, LLC	17.00%	696/206
1			NPAR, LLC		24/180
ł			Chevron U.S.A. Inc.		756/332
l			Chesapeake Appalachia, L.L.C.		30/532
l			SWN Production Company, LLC		33/110
ļ		American Foundation for the Blind, Inc., a New York	Chesapeake Appalachia, L.L.C.	18.00%	846/518
		corporation, by Rick Bozeman, Assistant Treasurer	SWN Production Company, LLC		35/32
		Children's Hospital and Healthcare Services Foundation, a	SWN Production Company, L.L.C.	18.00%	866/590
İ		Virginia corporation by Chris Broughton-Spruill, President,	,		·
		as agent for Crippled Children's Hospital			
5)	12-0001-0018-0000	Mark A. Schellhase and Andrea K. Schellhase, husband	Chesapeake Appalachia, L.L.C.	18.00%	721/468
L		and wife	SWN Production Company, LLC		33/110
6)	12-0001-0030-0000	Carole Ann Smith and Donald Smith, Wife and Husband,	SWN Production Company, L.L.C.	18.00%	860/325
1		and Carole Ann Smith as Trustee for Ernie Leasure under			
		the Last Will and Testament of Ruth Marie Leasure			
l		Janice E. Stift and Ralph Stift, Jr., Wife and Husband	Chesapeake Appalachia, L.L.C.	18.00%	843/94
		·	SWN Production Company, LLC		35/32
1		Nancy Marie Norman and Arch Norman, Wife and	Chesapeake Appalachia, L.L.C.	18.00%	843/106
1		Husband	SWN Production Company, LLC		35/32
		Paula Jean Walton and Gerald Walton, Wife and Husband	Chesapeake Appalachia, L.L.C.	18.00%	843/100
1		,	SWN Production Company, LLC		35/32
•				RFC.	

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1		Patricia Eileen Ritchea, divorced and unremarried	Chesapeake Appalachia, L.L.C.	18.00%	843/112
l			SWN Production Company, LLC		35/32
Ì		Iluminada A. Leasure, widow	SWN Production Company, L.L.C.	18.00%	866/227
l		James Elwood Leasure, Divorced and unremarried	Chesapeake Appalachia, L.L.C.	18.00%	843/136
l			SWN Production Company, LLC		35/32
		Martha L. Greaves and Thomas A. Greaves, Husband and Wife	SWN Production Company, L.L.C.	18.00%	852/609
ŀ		Harold Joseph Brock and Joanna Brock, Husband and Wife	Chesapeake Appalachia, L.L.C.	18.00%	843/118
		·	SWN Production Company, LLC		35/32
į		Bernice Virginia Brock, Widow	Chesapeake Appalachia, L.L.C.	18.00%	843/124
			SWN Production Company, LLC		35/32
		Robert A. Brock and Wilma Brock, Husband and Wife	Chesapeake Appalachia, L.L.C.	18.00%	843/130
l			SWN Production Company, LLC		35/32
l		Ronald Walton, Jr., Divorced and unremarried	Chesapeake Appalachia, L.L.C.	18.00%	843/142
ł			SWN Production Company, LLC		35/32
		Linda Michelle Sturm and Earl F. Sturm, III, Wife and	Chesapeake Appalachia, L.L.C.	18.00%	843/148
		Husband	SWN Production Company, LLC		35/32
7)	12-0001-0010-0000	Michael L. Coffield and Tylene R. Coffield, husband and	TH Exploration, LLC	18.00%	896/367
		wife	SWN Production Company, LLC		36/488
8)	12-0001-0010-0001	Walter Lewis Hartman & Gloria Louise Hartman, h&w	Chesapeake Appalachia, L.L.C.	12.50%	688/622
			SWN Production Company, LLC		33/110
9)	12-001A-0083-0000	Lonnie A. Snyder, a single man	American Petroleum Partners Operating, LLC	18.00%	949/429
L			SWN Production Company, LLC		45/381
10)	12-001A-0083-0002	Lonnie A. Snyder, a single man	American Petroleum Partners Operating, LLC	18.00%	949/429
			SWN Production Company, LLC		45/381
11)	12-001A-0077-0000	David A. Staley and Tracey Staley, his wife	American Petroleum Partners Operating, LLC	18.00%	932/163
_			SWN Production Company, LLC		45/381
12)	12-001A-0078-0000	Jerry Ray Daugherty and Melinda L. Daugherty, husband	American Petroleum Partners Operating, LLC	18.00%	932/155
		and wife, as Joint Tenants with the right of survivorship	SWN Production Company, LLC		45/381
13)	12-001A-0079-0000	William J. Morrison and Marciann Morrision, his wife, as	American Petroleum Partners Operating, LLC	18.00%	932/167
Ĺ		joint tenants with right of survivorship and not as tenants in common	SWN Production Company, LLC		45/381
14)	12-001A-0016-0000	William J. Morrison and Marciann Morrision, his wife, as	American Petroleum Partners Operating, LLC	18.00%	932/167
		joint tenants with right of survivorship and not as tenants in common	SWN Production Company, LLC		45/381

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15) 6-T17B-0319-0000

Douglas G. Paetzold and Kathryn E. Paetzold, husband and SWN Production Company, L.L.C.

18.00%

980/16

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Office of Oil and Gas

OCT 1 3 2020



September 30, 2020

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

Ms. Laura Adkins WV DEP Office of Oil & Gas 601 57th St., SE Charleston, WV 25304

RE: SWN's proposed New Well: BW Edge MSH 1H & BW Edge MSH 3H in Marshall and Ohio Counties, West Virginia, Drilling under Cedar Rock Road, Britt Run Road, and Walnut Grove Road.

Dear Ms. Adkins:

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 Cedar Rock Road, Britt Run Road, and Walnut Grove 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,

Bailey Brougher

Landman - SW Appalachia

SWN Production Company, LLC

Bailey Brougher

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WW hele project of Environmental Projection

R2 wV+

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

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

Date of Notic	ce Certification:		API No. 4	7- 051 -
			Operator's	s Well No. BW Edge MSH 1H
			Well Pad I	Name: BW Edge MSH
Notice has l	been given:			
Pursuant to th	ne provisions in West Virginia Code § 22	2-6A, the Operator has pro	vided the re	quired parties with the Notice Forms listed
below for the	tract of land as follows:			
State:	West Virginia	UTM NAD 83	Easting:	531,792.744
County:	051-Marshall	U 1 W NAD 63	Northing:	4,428,550.461
District:	Sand Hill	Public Road Acc	cess:	Big Wheeling Creek Road
Quadrangle:	Wheeling	Generally used to	arm name:	BW Edge MSH
Watershed:	Grandstaff Run of Wheeling Creek			
prescribed by	the secretary, shall be verified and shall	l contain the following inf	ormation: (1	is section shall be on a form as may be 4) A certification from the operator that (i)
it has provid	ed the owners of the surface described	in subdivisions (1), (2)	and (4), sub	section (b), section ten of this article, the

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to that the Operator has properly served the required parties with the following	
*PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUESTISMIC ACTIVITY WA	
■ 2. NOTICE OF ENTRY FOR PLAT SURVEY of ☐ NO PLAT SUR	EVEY WAS CONDUCTED RECEIVED
■ 3. NOTICE OF INTENT TO DRILL OF NOTICE NOT REQUESTION NOTICE OF ENTRY FOR WAS CONDUCTED OF	
☐ WRITTEN WAIVER (PLEASE ATTAC	R BY SURFACE OWNER H)
4. NOTICE OF PLANNED OPERATION	I RECEIVED
5. PUBLIC NOTICE	Office of Cil and Gas RECEIVED
■ 6. NOTICE OF APPLICATION	OCT 1 3 2020 RECEIVED
	WV Department of

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.

Certification of Notice is hereby given:

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

Well Operator: SWN Production Co., LLC

By: Brittany Woody

Its: Senior Regulatory Analys

Telephone: 304-884-1610

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Email: Brittany_Woody@swn.com

NOTARY PUBLIC OFFICIAL SEAL
JESSICA C. VANGILDER
State of West Virginia
My Comm. Expires Jul 20, 2020
SWN Production Company, LLC
179 Innovation Dr. Jane Lew, WV 26378

Subscribed and sworn before me this

day of June, 2020

Notary Public

My Commission Expires 7-20-

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 deportuges officer days got.

Office of Cil and Gas

OCT 1 3 2020

WW-6A (9-13) 4705102343 API NO. 47-051 OPERATOR WELL NO. BW Edge MSH 1H Well Pad Name: BW Edge MSH

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

Notice Time Requir	rement: notice shall be prov	ided no later than the filing date of permit application.			
Date of Notice: Notice of:	Date Permit Applica	ation Filed: 10/3			
PERMIT FOR WELL WORK		ICATE OF APPROVAL FOR THE RUCTION OF AN IMPOUNDMENT OR PIT			
Delivery method pu	ursuant to West Virginia C	ode § 22-6A-10(b)			
PERSONAL SERVICE	REGISTERED MAIL	☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION			
registered mail or by sediment control plan the surface of the trace oil and gas leasehold described in the erosis operator or lessee, in more coal seams; (4) well work, if the surfainpoundment or pit a have a water well, spi provide water for con proposed well work a subsection (b) of this records of the sheriff provision of this artice Code R. § 35-8-5.7.a.	any method of delivery that re- trequired by section seven of it on which the well is or is pro- being developed by the propo- on and sediment control plan the event the tract of land on. The owners of record of the sace tract is to be used for the pass ace tract is to be used for the pass described in section nine of fing or water supply source lo- sumption by humans or dome ctivity is to take place. (c)(1) section hold interests in the la- required to be maintained pur- le to the contrary, notice to a requires, in part, that the ope	poundment or pit as required by this article shall deliver, by per- quires a receipt or signature confirmation, copies of the applicat this article, and the well plat to each of the following persons: () oposed to be located; (2) The owners of record of the surface tra- sed well work, if the surface tract is to be used for roads or othe submitted pursuant to subsection (c), section seven of this article, which the well proposed to be drilled is located [sic] is known to urface tract or tracts overlying the oil and gas leasehold being do placement, construction, enlargement, alteration, repair, removal this article; (5) Any surface owner or water purveyor who is known that the strict is possible to the operator of any natural gas storage field lift more than three tenants in common or other co-owners of inte- meds, the applicant may serve the documents required upon the po- suant to section eight, article one, chapter eleven-a of this code. Signator shall also provide the Well Site Safety Plan ("WSSP") to the and water testing as provided in section 15 of this rule.	ion, the erosion and 1) The owners of record of cet or tracts overlying the r land disturbance as e; (3) The coal owner, be be underlain by one or eveloped by the proposed or abandonment of any own to the applicant to well pad which is used to d within which the rests described in erson described in the (2) Notwithstanding any the landowner. W. Va.		
☑ Application Noti		&S Plan Notice	o:		
Name: Barbara Ann & W		Name: C/O Leatherwood, Inc. Attn: Casey Saunders			
Address: 1116 Virginia	Street	Address: 1000 Consol Energy Drive			
Martins Ferry, OH 43935 Name: David Wayne Edg		Canonsburg, PA 15317 COAL OPERATOR	DECENTA		
Address: 27 Pine Lane		Name:	Office of Clinivi Gds		
Wheeling, WV 26003		Address:	OCT 1 B dana		
SURFACE OWN	ER(s) (Road and/or Other D	sturbance)			
Name:		■ SURFACE OWNER OF WATER WELL			
Address:		AND/OR WATER PURVEYOR(s)	Environmental Protection		
Mama		Name: None Address:			
Address:					
. 1001 0001		☐ OPERATOR OF ANY NATURAL GAS	STORAGE FIELD		
SURFACE OWN	ER(s) (Impoundments or Pit	Name:	Name:		
Name:		Address:			
Address:		*Please attach additional forms if necessary			

API NO. 47-051 -OPERATOR WELL NO. 5

OPERATOR WELL NO. BW Edge MSH 1H Well Pad Name: BW Edge MSH

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

Not	ice Time Requirement: no	tice shall be provided	no later than	the filing date of permit application.	
	cilai		181	M	
Dat	e of Notice: Date	e Permit Application	Filed:	10	
Not	ice of:	Carried Comments	1		
1400	ice or.				
$ \sqrt{} $	PERMIT FOR ANY	CEPTIFICAT	CE OF A DDI	ROVAL FOR THE	
ш.					
	WELL WORK	CONSTRUC	TION OF A	N IMPOUNDMENT OR PIT	
n					
Deli	very method pursuant to	West Virginia Code §	§ 22-6A-10(b)	
	PERSONAL R	EGISTERED [METHO	DD OF DELIVERY THAT REQUIRES A	
	SERVICE N	MAIL		PT OR SIGNATURE CONFIRMATION	
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oil a desc oper more well impe have prov prop subs reco prov Cod	and gas leasehold being developed in the erosion and sedicator or lessee, in the event the coal scams; (4) The owners work, if the surface tract is toundment or pit as described a water well, spring or water ide water for consumption by lossed well work activity is to section (b) of this section hold rds of the sheriff required to rision of this article to the core R. § 35-8-5.7.a requires, in	loped by the proposed we ment control plan submuse tract of land on which is of record of the surface to be used for the placent in section nine of this are supply source located by humans or domestic a take place. (c)(1) If mod interests in the lands, be maintained pursuant naturary, notice to a lien has part, that the operator	well work, if a titted pursuar in the well property of the well property of the well property of the within one than three the applicant it to section eight of the wind also property of the wind and the well also property of the wind and the well also property of the well also	the surface tract is to be used for roads or other at to subsection (c), section seven of this article oposed to be drilled is located [sic] is known to tots overlying the oil and gas leasehold being detection, enlargement, alteration, repair, removal only surface owner or water purveyor who is known to the content of the undered feet of the center of the water purveyor who is known to the content of any natural gas storage field the tenants in common or other co-owners of intered may serve the documents required upon the peright, article one, chapter eleven-a of this code. (anotice to a landowner, unless the lien holder is the ovide the Well Site Safety Plan ("WSSP") to the sprovided in section 15 of this rule.	land disturbance as (3) The coal owner, be underlain by one or veloped by the proposed or abandonment of any wn to the applicant to vell pad which is used to d within which the rests described in erson described in the (2) Notwithstanding any the landowner, W. Va.
	Application Notice 🛮 WS		lan Notice	☑ Well Plat Notice is hereby provided to	Ţ.
-	URFACE OWNER(s)	/		☐ COAL OWNER OR LESSEE	
	ne: Edith Folmer			Name: Murray American Energy, Inc.	
	ress: 244 Grandstaff Lane			Address: 6126 Energy Road	
-	eling, WV 26003			Moundsville, WV 26041	
	ne: Wheeling Power Company			□ COAL OPERATOR	
	ress: 1 Riverside Place			Name:	
_	mbus, OH 43215			Address:	Draw
OS!	URFACE OWNER(s) (Roa	d and/or Other Disturb			Office of Culand Gas
	ne:			☐ SURFACE OWNER OF WATER WELL	
Add	ress:			AND/OR WATER PURVEYOR(s)	OCT 1 3 2020
				Name:	
Nan	ne:			Address:	- Wy Drappoville
Add	ress:				WV Department of Environments Probeotion
	VIII -			OPERATOR OF ANY NATURAL GAS	STORAGE FIELD
II SI	URFACE OWNER(s) (Imp	oundments or Pits)		Name:	
_	ne:			Address:	
Add	fress:			7.000	
				*Please attach additional forms if necessary	

WW-6A (8-13) API NO. 47-051

OPERATOR WELL NO. BW Edge MSH 1H Well Pad Name: BW Edge MSH

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil2 Of 1 3 2020

Well Location Restrictions

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

Notice is hereby given:

Pristanto West Virgina Code § 22-6A-10(b) nonce is hereby given that the understand not important has applied for a permit for well work or for a cartificate of approval for the construction of an impoundment or put

This Notice Shall Include:

Presugnt to William Chief (11-6A-100), this notice shall include: (1) copies of the apply after, (2) the crosson and sediment control plan required by section seven of this arrelation (3) the well plat.

Presonnt to W. Va. Code § 22-6. v-10m), this not is shall include (1 m statement of the final starting written comments, (2) is written comments; (3) the name and address of the secretary for the purpose of thing the comments and obtaining additional information, and (4) a statement that the persons may request at the name of abundance or interaction and a first of persons qualified to test water.

Pursign to W. Va. Code K. § 35-8-5.7 at the operator shall propide the Well Site Sarin, Planto the surface owner and any water pure year or suckee owner subject to notice are water testing at provided as searon 1. of the rate

Fursiant to W. Va. Code R. § 53-8-15.d., this notice single, (1) contain a statement of the reine contest and wore purveyor to request sampling and analysin (2) advise the surface owner cad water purveyor or the reliable prostapping for explanmention or deprivation of a fresh water source or supply; advise this author and water purveyor that refusal to ellow the operator to conduct a pro-drifting water and loss constitutes a method to active one operation of liability. (3) advise the surface owner and water of his or her independent right to adopt a active any water supply at his or her owner, advise the surface owner and water purveyor while for not the operator will attitude an independent his of water to act purveyor that has or she can obtain from the Careful about results and or water purveyor that has or she can obtain from the Careful and of water results that the subject area capable of and applied to test mayor supplies in adopte one with recident acceptable and and to test mayor supplies in adopte and with recident acceptable and the subject area capable.

Additional information related to herizonal durling may be obtained from the Secretary of the W.V. Department of Environmental[®]. Preference headquingers, located in 60), 52th Selber, Sir Charleston, W.V. 25304 (364-920-0450), or by visiting <u>outly 6, property</u> with the contributions.

Well Louisian Massadribus

Pursuant will. Val Code & 22-6A-12, Wails may not be druited within two hundred first recurrened horizontally from any existing water well or developed spring used for himmen or domestic animal consumption. His contourd well pieds may not be located within axhandred twenty-the feet of an occupied dwellting represent or a building two thousand the burded square feet or larger used to believe or shelter dairy caute of nouthly hudbandry. This limitation is applicable to these well's cloveloped springs, dwellings or agricultural buildings that evisited on the dair a notice to the soffice owner of planaed entry for curveying as provided in section ten of this article or a notice of intent to dail a homewater will be provided in subsection (i), secreta accountified was provided. tybichover occars inst, and to any dwelling under construction prior to that date. This illustration may be warred by wanter consent of the surface owner transmitted to the department and recorded in the rest property records maintained by the rifer of the county commission for the courty in which such properly is localed. But homore, the well operator may be greated a variance by the secretary. from those distance restrictions upon submission of a plan which identifies the sufficient accourse. Lasilaties or practices in to eraployed durang well site consciuence, define and operations. The varance, if granted, call include ferres, and conditions the department requires to areare the safety and proceeting of affected persons and properly. The terms and conditions may include insurguse, bandida and indenari hearion, as well as technical requirements (b) ve vell put may be prepared or well drill divitatin one nondred foet measured hostcontalty from any poramial surcont include or airlifeful. Indee pand or reservoir, or a weatand, or within filtree bundred lect of a nativally reproducing tout sin ani. No well had true be located within one thousand lect of a surface of ground rease intake of a public victor surply. The distance from the public water supply is identified by the department shall be ministered as tallows; (1) For a unifier with intake on a lake on reserroin, the distincte shall on measured from the boundary of the lake or regervoin (2) For a sortion water intoles on a Roying structu, the distance shall be measured from a servericular radiosisseed by upon consort of the surface water unaker (3) For a groundwater source, the distance shall be measured from the welthead or springs. The department away, in thi discretion, waive these distance resuriations muon submission of a plan identifymu sufficient measures, ikcilities or pracheus to be employed during will alse opportunition, defing and operations to protect the waters of the care. A warver, if granted, shall impose may permit conditions as the secretary consider, necessary, to) Norwthistarding the foregoing provisions of this section, nothing contained in this seation provents an operator from conducting the activities permitted or authorized by a Clour. Water Act Section 404 permit or other approval from the United States Array Corps of Engineers within any wages of the state of whim the respicted areas referenced or this section. (4) The well location restrictions set forth in this section shot act upply to any on a multiple well had if at teast one of the wells was permitted brown to the effective date of this unrelated in the societies shall by Dickember 31, 2012, report to the Legislations on the noise, light, that and volutile organic compounds generated by the dulling of barizontal wells as they relate to the well became carticeous regarding econoised diveiling structures persuant to this section. Upon a finding of any, by the sectiony that the welt noration restrictions regarding occurred awalting actionies are insidequence extinatives require attending to address the nerties

WW-6A (8-13)

API NO. 47-051

OPERATOR WELL NO. BW Edge MSH 1H

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:

Office of Oil and Gas

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

OCT 1 3 2020

WV Description 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.

WW-6A (8-13) API NO. 47-051

OPERATOR WELL NO. BW Edge MSH 1H

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.



APPRATOR VELL NO INCOMESSION WILL NO INCOMESSION WAS TO BE WELL WA

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This lays requires these manerials to be served on or before the operator this its anotherion. You have talker to (30) PACS.

after the filling date to alleyour comments. Compenis must be fitted in present or received in the estal by the Chief's office by the time attacked. You may call the Chief's office to be sure or the date. Chief with your pertonsion to ensure adoquate delivery time or in according to the Chief's office to be sure of the well operated and you have been contacted by the well operated and interesting a "voluntary surfament of our objection" to the planned work described in mass materials (then the permit may be usually under

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Support footstand &

Voir comments must be in writing and include your name, admiss and tetaphone number the well appendion's name and well number. And the approximate location of the proceed well site including district or december from the application. You may add other decembers such as skerches, ungrear photographs to support your commence.

Disolojment All comments received will be placed on our web, the highest with the comments received will be placed on our web, the highest will be a comment and comments and comments are considered in the comments of the c

ye (age) a sure the expected the applicant will agreement be forward the arrait animalitative consistent absent satisfical. The applicant will be expected to provide a response to consuments subject of a may suffice owner water purveyor or assured has storegy operator noticed within the application.

Permit Benink or Condition

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 - (f) The proposed well work fails to project fresh water sources or supplies.

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Hussian to West Virginia Code § 22-6A-10(2), any person audied to submit written commons to the secretary pursuant to subsection (A) secretary of this muck, that also be entitled to receive from the secretary accept of the permit as issued or a copy of the order modifying or denying the permit these person requests receipt of them as a part of the ventren comments submitted concerning the permit application. Such persons may request, at the normal submitting with a comments, retige of the permit decision are a list of persons qualified to test water.

WW-6A (8-13)

4705102343

API NO. 47-051

OPERATOR WELL NO. BW Edge MSH 1H

Well Pad Name: BW Edge MSH

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Oil and Gas Privage: "The Office. 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 awy nov.

NOTARY PUBLIC OFFICIAL SEAL JESSICA L. VANGILDER State of West Virginia My Comm. Expires Jul 20, 2020 SWN Production Company, LLC 179 Innovation Dr. Jane Lew, WV 26378

Subscribed and sworn before me this Notary Public

My Commission Expires

Office of Oil and Gas

OCT 1 3 2020

4705102343 FOLMAR SWADE RETUX 12 100130000000 -15 3001 0000000 Vel IX SIXV Cheries (SALYROBERT ASREST -12 200020000000 Water Purveyor Map Well Pad: BW Edge County: MSH Spring Parcel 1 in = 417 ft W Water Well 1500' Buffer Pad Pond 0.025 0.05 0.15 0.2 Southwestern Energy® Coordinate System: NAD 1983 UTM Zone 17N Units: Meter Date: 5/28/2020 Author: willisb

Coordinates: 40.007263, -80.626769

Operator Well No. B & W Edge MSH

WW-6A3 (1/12)

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

entry Date of Notice:		Date of Plan	med Entry: 5/20/202		ys out no more mai	I FORTI-FIVE	(43) days prior to
		to West Virginia C					
☐ PERSONA		REGISTERED	☐ METHOD		IVERY THAT RE		
SERVICE		MAIL	RECEIPT (OR SIGN	ATURE CONFIR	MATION	
on to the surface but no more that beneath such tra- owner of minera and Sediment C Secretary, which	e tract to cond in forty-five d act that has fil als underlying ontrol Manua h statement sh	luct any plat survey ays prior to such en ed a declaration pur	s required pursuant try to: (1) The surfa suant to section thin unty tax records. T id rules related to oil information, includ-	to this ar ce owne ty-six, a he notic Il and gas	ticle. Such notice s r of such tract; (2) tricle six, chapter to e shall include a sta s exploration and p	shall be provided to any owner or l wenty-two of this atement that copi roduction may be	essee of coal seams s code; and (3) any es of the state Erosion e obtained from the
Notice is hereb	y provided to	0;					
■ SURFACE	OWNER(s)	/	[COA	L OWNER OR LE	SSÉE	
Name: Barbara An		e ~	N		ray American Energy, Inc.		
Address: 1116 Vi			_	11.01.01.1	6126 Energy Road	•	_
Martins Ferry, OH 439				oundsville, V			
Name: David Way	ne Edge			4		V	w. APOD
Address: 27 Pine	Lane		1	MINI	ERAL OWNER(s)		Office of Oil and
Wheeling, WV 26003			N	ame: Ero	ld O. & Jaesphine Fletcher	J	(10
Name: Edith Folme			A	ddress:	7115 Estepa Drive		OCT 1 3 202
Address: 244 Gra	indstaff Lane		Ti	ujunga, CA 9	1042		100
Wheeling, WV 26003			p	lease attac	h additional forms if ne	ecessary	Environmental Proces
Notice is here Pursuant to Wes a plat survey on	st Virginia Co					l operator is plan	ning entry to conduct
State: v	Vest Virginia				ude & Longitude:	40.015294, -80.630	
	Marshall			c Road	Access:	Big Wheeling Creek I	Road
_	Sand Hill			ershed:		Upper Ohio South	
Quadrangle: v	Vheeling		Gene	rally use	d farm name:	B & W Edge MSH	
may be obtained Charleston, WV	d from the Se 25304 (304	nd Sediment Contro cretary, at the WV I -926-0450). Copies by visiting <u>www.der</u>	Department of Envir of such documents	onmenta or addit	l Protection headq ional information r	uarters, located a	ation and production t 601 57 th Street, SE, tal drilling may be
Notice is here	hy given hy	r					
Well Operator:		TION COMPANY, LLC	Ad	dress:	1300 Fort Pierpont Dr.,	Suite 201	
. dr. operator.		HELLONIN WALLES			Morgantown, WV 26508		
Telephone:	304-884-7670						
Telephone: Email:	304-884-1610 Brittany_Woody(Øswn.com	Fa	csimile:	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@ww.gov.

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

Notice T entry	ime Req	uirement:	Notice shall be provi	ided at	least SEVEN (7) day	ys but no more tha	n FORTY-FIVE	(45) days prior to
Date of l	Notice: 5	5/13/2020	Date of Plan	ned E	niry: 5/20/2020			
Delivery	method	pursuant	to West Virginia Co	ode § 2	2-6A-10a			
☐ PEI	RSONAL		REGISTERED		METHOD OF DEL	IVERY THAT RE	EOUIRES A	
	RVICE		MAIL		RECEIPT OR SIGN			
on to the but no m beneath s owner of and Sedi Secretary	surface to ore than such tract minerals ment Con y, which	ract to cond forty-five d t that has fil s underlying ntrol Manua statement sl	duct any plat surveys ays prior to such ent led a declaration purs g such tract in the could and the statutes and	require ry to: (suant to unty tax d rules nforma	related to oil and gas tion, including the a	ticle. Such notice of such tract; (2) rticle six, chapter to shall include a state exploration and p	shall be provided a to any owner or le- wenty-two of this atement that copies production may be	at least seven days ssee of coal seams code; and (3) any s of the state Erosion obtained from the
Notice is	hereby	provided to	0:					
SUF	RFACE C	WNER(s)			■ COAI	LOWNER OR LE	SSEE	
		ver Company			Name: c/o	Leatherwood, Inc. Attn: C	Casey Saunders	
	1 Riverside				Address:	1000 Consol Energy Drive		2
Columbus, 0	And the second				Canonsburg, F	PA 15317		
Name: _ Address:						ERAL OWNER(s)		
				~	Name:			
Name: _					Address:			_
Address:	-			-	*please attacl	h additional forms if ne	ecessary	=
Pursuant a plat sur State: County: District: Quadran	to West rvey on the Main Sar gle: Who	he tract of last Virginia rishall and Hill eelling ee Erosion as	and as follows:	Manua	Public Road A Watershed: Generally use	ude & Longitude: Access: d farm name: d rules related to o	40.015294, -80.630 Big Wheeling Creek Ro Upper Ohio South B & W Edge MSH	ion and production
may be of Charlesto obtained Notice i	obtained in on, WV from the	from the Se 25304 (304	cretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u>	epartm of such	ent of Environmenta n documents or additi v/oil-and-gas/pages/o	l Protection headq ional information i	uarters, located at	601 57 th Street, SE, al drilling may be
Well Op			TION COMPANY, LLC		Address:	1300 Fort Pierpont Dr.,		Office of Cli and Gas
Telephor	-	304-884-1610			77	Morgantown, WV 2650	8	OCT 7 9 2022
Email:	1	Brittany_Woody(@swn.com		Facsimile:	304-884-1690		TO EUCH
Oil and	Gas Pr	ivacy Not	ice:					Environmental Programa

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.

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.

ood pursuant to West Virginia Code § 22			
ion burgamit to treat the simil code 3 22	-6A-16(b)		
■ CERTIFIED MAIL			
RY RETURN RECEIPT REQU	JESTED		
need or hand delivery, give the surface owner contal well: <i>Provided</i> , That notice given prion as of the date the notice was provided by be waived in writing by the surface owner.	or notice of its intent to enter upon to pursuant to subsection (a), section to the surface owner: <i>Provided</i> , hower. The notice, if required, shall inc	he surface owner's land fen of this article satisfies wever, That the notice required the name, address, to	or the purpose of the requirements uirements of this elephone number,
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	Generally used farili hame.	Dayy Lage Mort	
Chandsian Number Wilesing Creek (1100-10)	-		
Shall Include			
	otice shall include the name add	ress telephone number	and if available
		4-112-1-11	
eby given by:			
SWN Production Company, LLC	Authorized Representative	Justin Booth	
1300 Fort Pierpont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite	201ffice of fill and on
Morgantown, WV 26508		Morgantown, WV 26508	
304-884-1675	Telephone:	304-884-1675	OCT 1 3 2020
Justin_Booth@SWN.com	Email;	Justin_Booth@SWN.com	ives.
	Facsimile:	E	CANTERIOR IN THE
1 3 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Va. Code § 22-6A-16(b), at least ten days ed or hand delivery, give the surface owner contal well: Provided, That notice given provided to the date the notice was provided to be waived in writing by the surface owner, facsimile number and electronic mail address. Facsimile number and electronic mail address of the operation of the surface of the operation. Facsimile number and electronic mail address of the operation of the surface of the operation of the surface of the surfac	Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application ed or hand delivery, give the surface owner notice of its intent to enter upon the contal well: Provided, That notice given pursuant to subsection (a), section to contal well: Provided, That notice given pursuant to subsection (a), section to contal well: Provided, how be waived in writing by the surface owner. The notice, if required, shall ince, facsimile number and electronic mail address of the operator and the operator eby provided to the SURFACE OWNER(s): Edge, Jr. and Barbara Ann Edge Virginia St. Address: Address: Address: Address: Address: Address: West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned neer's land for the purpose of drilling a horizontal well on the tract of land as for West Virginia West Virginia Marshall Sand Hill Wheeling, WV/OH Grandstaff Run of wheeling Creek (HUC-10) Shall Include: Yest Virginia Code § 22-6A-16(b), this notice shall include the name, address of the operator and the operator's authorize zontal drilling may be obtained from the Secretary, at the WV Department of S7th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.d eby given by: SWN Production Company, LLC 1300 Fort Plerpont Dr., Suite 201 Morgantown, WV 26508 304-884-1675 Justin_Booth@SWN.com Telephone: Email:	Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by cered or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land frontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies ion as of the date the notice was provided to the surface owner. Provided, however, That the notice region is an of the date the notice was provided to the surface owner. The notice, if required, shall include the name, address, tee, facsimile number and electronic mail address of the operator and the operator's authorized representative and before the SURFACE OWNER(s): Edge, Jr. and Barbara Ann Edge Provided to the SURFACE OWNER(s): Address: Address: Address: Address: Address: Address: Beby given: Easting: Sand Hill Public Road Access: Big Wheeling Creek Road Wheeling, WV/OH Grandstaff Run of wheeling Creek (HUC-10) Shall Include: Fest Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, ber and electronic mail address of the operator and the operator's authorized representative. Additizental drilling may be obtained from the Secretary, at the WV Department of Environmental Protect 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pa Eby given by: SWM Production Company, LLC Authorized Representative: Address: Justin Booth Morgantown, WV 26508 304-884-1675 Justin_Booth@SWN.com

Oil and Gas Privacy Notice:

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

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ate of Notic	ce: 06/05/2020	Da	te Permit	_	rolla		
elivery met	hod pursuant	to West Virginia Co	ode § 22-6/	A-16(b)			
HAND		CERTIFIED MAIL					
DELIVE	ERY	RETURN RECEIP	T REQUE	STED			
ceipt requestilling a hore this subsection mand if availab	sted or hand de izontal well: Petion as of the day be waived in the facsimile nu	livery, give the surfa rovided, That notice ate the notice was pro- writing by the surfa amber and electronic	ce owner n given purs ovided to t ce owner mail addre	otice of its intent to e suant to subsection (a he surface owner: Pr The notice, if require ss of the operator and	enter upon to a), section to rovided, how ed, shall inc	, an operator shall, by ce the surface owner's land en of this article satisfies wever, That the notice re lude the name, address, to or's authorized represent	for the purpose of the requirements quirements of this elephone number,
	therwood, Inc. ATTN:	d to the SURFAC Casey Saunders	E OWNE	Name:			
_	Consol Energy Drive		V	Address:			
Canonsburg, PA			-				_
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Operator Well No. BW Edge MSH 1H

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.

N.P.		4 - \$57 - 1 × 10 - 1	A	1600		
Delivery me	thod pursuant	to West Virginia	Code § 22-6A	-16(b)		
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		d to the SURFA	CE OWNE	R(s):		
	American Energy, Inc.			Name:		
Address: 6126			V	Address:		
Moundsville, WV	26041					
Pursuant to V he surface or	wner's land for			reby given that the undersigned tal well on the tract of land as f	follows:	ent to enter upon
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DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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.

Date of Noti	Requirement: Notice shall be provided at l e: 06/05/2020 Date Perm	east TEN (10) days prior to filips a	permit application.	
Delivery me	hod pursuant to West Virginia Code § 22	-6A-16(b)		
☐ HAND	CERTIFIED MAIL RETURN RECEIPT REQU	JESTED		
receipt reque drilling a hor of this subsection mand if available	V. Va. Code § 22-6A-16(b), at least ten days sted or hand delivery, give the surface owner izontal well: <i>Provided</i> , That notice given pution as of the date the notice was provided to any be waived in writing by the surface owner le, facsimile number and electronic mail additional description.	or notice of its intent to enter upon to consult to subsection (a), section to the surface owner: <i>Provided</i> , hower. The notice, if required, shall incorress of the operator and the operator	he surface owner's land for en of this article satisfies wever, That the notice required lude the name, address, te	or the purpose of the requirements uirements of this lephone number,
Notice is he Name: Wheelin	reby provided to the SURFACE OWN			
Address: 1Ri		Name:Address:		
Columbus, OH 4		Address.		
State: County: District:	vner's land for the purpose of drilling a hori. West Virginia Marshall Sand Hill	UTM NAD 83 Easting: Northing: Public Road Access:	531,792.744 4,428,550.461 Big Wheeling Creek Road	
Quadrangle:	Wheeling, WV/OH	Generally used farm name:	B&W Edge MSH	
Watershed:	Grandstaff Run of wheeling Creek (HUC-10)		Dan Logo Morr	
Pursuant to facsimile nur related to ho	Shall Include: West Virginia Code § 22-6A-16(b), this number and electronic mail address of the optizontal 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. Addition of Environmental Protection	onal information on headquarters,
Pursuant to facsimile nur related to ho located at 60	West Virginia Code § 22-6A-16(b), this name and electronic mail address of the optizontal 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. Addition of Environmental Protection	onal information on headquarters,
Pursuant to facsimile nur related to ho located at 60 Notice is he	West Virginia Code § 22-6A-16(b), this maker and electronic mail address of the optizontal drilling may be obtained from the § 57th Street, SE, Charleston, WV 25304 (30 reby given by:	perator and the operator's authorize Secretary, at the WV Department of	ed representative. Addition of Environmental Protection of	onal information on headquarters,
Pursuant to facsimile nur related to ho located at 60	West Virginia Code § 22-6A-16(b), this maker and electronic mail address of the optizontal drilling may be obtained from the § 57th Street, SE, Charleston, WV 25304 (30 reby given by:	perator and the operator's authorize Secretary, at the WV Department of 04-926-0450) or by visiting www.d	ed representative. Addition of Environmental Protection of	onal information on headquarters, ges/default.aspx.
Pursuant to facsimile nur related to ho located at 60 Notice is he Well Operator	West Virginia Code § 22-6A-16(b), this makes and electronic mail address of the optizontal drilling may be obtained from the § 57th Street, SE, Charleston, WV 25304 (30 reby given by: SWN Production Company, LLC	perator and the operator's authorize Secretary, at the WV Department of 04-926-0450) or by visiting www.d	ed representative. Addition Environmental Protection Environmental Environme	onal information on headquarters, ges/default.aspx.
Pursuant to facsimile nur related to ho located at 60 Notice is he Well Operator	West Virginia Code § 22-6A-16(b), this makes and electronic mail address of the optizontal drilling may be obtained from the § 57th Street, SE, Charleston, WV 25304 (30 reby given by: SWN Production Company, LLC 1300 Fort Pierpont Dr., Suite 201	perator and the operator's authorize Secretary, at the WV Department of 04-926-0450) or by visiting www.d	ed representative. Addition of Environmental Protection of	onal information on headquarters, ges/default.aspx.
Pursuant to facsimile nur related to ho located at 60 Notice is he Well Operato Address:	West Virginia Code § 22-6A-16(b), this makes and electronic mail address of the optizontal drilling may be obtained from the § 57th Street, SE, Charleston, WV 25304 (30 reby given by: SWN Production Company, LLC 1300 Fort Pierpont Dr., Suite 201 Morgantown, WV 26508	perator and the operator's authorized Secretary, at the WV Department of 04-926-0450) or by visiting www.d Authorized Representative Address.	ed representative. Addition of Environmental Protection of	onal information on headquarters, ges/default.aspx.
Pursuant to facsimile nur related to ho located at 60 Notice is he Well Operato Address:	West Virginia Code § 22-6A-16(b), this maker and electronic mail address of the opizontal drilling may be obtained from the § 57th Street, SE, Charleston, WV 25304 (30 reby given by: SWN Production Company, LLC 1300 Fort Pierpont Dr., Suite 201 Morgantown, WV 26508 304-884-1675	Secretary, at the WV Department of 24-926-0450) or by visiting www.d Authorized Representative Address: Telephone:	ed representative. Addition of Environmental Protection of	onal information on headquarters, ges/default.aspx.

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.

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		rovided at least TEN (10) days prior to filing a Date Permit Application Filed:	permit application.
Delivery met	hod pursuant to West Virginia	Code § 22-6A-16(b)	
TTANDS	S OPPOPURED MA	177	
☐ HAND	CERTIFIED MA		
DELIVE	RY RETURN RECE	EIPT REQUESTED	
receipt request drilling a hore of this subsect subsection mand if availab	sted or hand delivery, give the sur- izontal well: <i>Provided</i> , That not tion as of the date the notice was ay be waived in writing by the sur-	ast ten days prior to filing a permit application, rface owner notice of its intent to enter upon the ice given pursuant to subsection (a), section to provided to the surface owner: Provided, how rface owner. The notice, if required, shall include mail address of the operator and the operator.	he surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this lude the name, address, telephone number,
Name: David W		Name:	
HUILIG.		Address:	
Address 27 P	ine Lane		
the surface or	reby given: Vest Virginia Code § 22-6A-16(b wner's land for the purpose of dril	o), notice is hereby given that the undersigned lling a horizontal well on the tract of land as fo	ollows:
Notice is he Pursuant to V the surface of State:	reby given: Vest Virginia Code § 22-6A-16(b vner's land for the purpose of dril West Virginia	o), notice is hereby given that the undersigned lling a horizontal well on the tract of land as for Easting:	bllows: 531,792.744
Notice is he Pursuant to V the surface ov State: County:	reby given: Vest Virginia Code § 22-6A-16(b wner's land for the purpose of dri West Virginia Marshall	o), notice is hereby given that the undersigned lling a horizontal well on the tract of land as for Easting: UTM NAD 83 Northing:	531,792.744 4,428,550.461
Notice is he Pursuant to V the surface ov State: County: District:	reby given: Vest Virginia Code § 22-6A-16(bwner's land for the purpose of dril West Virginia Marshall Sand Hill	o), notice is hereby given that the undersigned lling a horizontal well on the tract of land as for Easting: UTM NAD 83 Rorthing: Public Road Access:	531,792.744 4,428,550.461 Big Wheeling Creek Road
Wheeling, WV 26 Notice is he Pursuant to V	reby given: Vest Virginia Code § 22-6A-16(b wner's land for the purpose of dri West Virginia Marshall	o), notice is hereby given that the undersigned lling a horizontal well on the tract of land as for Easting: UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	531,792.744 4,428,550.461
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nurrelated to hor	reby given: Vest Virginia Code § 22-6A-16(bwner's land for the purpose of dril West Virginia Marshall Sand Hill Wheeling, WV/OH Grandstaff Run of wheeling Creek (HUC- Shall Include: West Virginia Code § 22-6A-16 nber and electronic mail address izontal drilling may be obtained	o), notice is hereby given that the undersigned lling a horizontal well on the tract of land as for Easting: UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	ollows: 531,792.744 4,428,550.461 Big Wheeling Creek Road B&W Edge MSH ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters,
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nurrelated to hor located at 601	reby given: Vest Virginia Code § 22-6A-16(byner's land for the purpose of dril West Virginia Marshall Sand Hill Wheeling, WV/OH Grandstaff Run of wheeling Creek (HUC-Shall Include: West Virginia Code § 22-6A-16 nber and electronic mail address izontal drilling may be obtained 57th Street, SE, Charleston, WV	o), notice is hereby given that the undersigned lling a horizontal well on the tract of land as for Easting: OTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: (b), this notice shall include the name, additions of the operator and the operator's authorization from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	billows: 531,792.744 4,428,550.461 Big Wheeling Creek Road B&W Edge MSH ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv. gov/oil-and-gas/pages/default.aspx.
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nurrelated to hor located at 601 Notice is he Well Operato	reby given: Vest Virginia Code § 22-6A-16(byner's land for the purpose of dril West Virginia Marshall Sand Hill Wheeling, WV/OH Grandstaff Run of wheeling Creek (HUC- Shall Include: West Virginia Code § 22-6A-16 nber and electronic mail address rizontal drilling may be obtained 57th Street, SE, Charleston, WV	o), notice is hereby given that the undersigned lling a horizontal well on the tract of land as for Easting: UTM NAD 83 Public Road Access: Generally used farm name: (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.defauthorized Representative:	billows: 531,792.744 4,428,550.461 Big Wheeling Creek Road B&W Edge MSH ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv. gov/oil-and-gas/pages/default.aspx.
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nurrelated to hor located at 601	reby given: Vest Virginia Code § 22-6A-16(byner's land for the purpose of dril West Virginia Marshall Sand Hill Wheeling, WV/OH Grandstaff Run of wheeling Creek (HUC-Shall Include: West Virginia Code § 22-6A-16 nber and electronic mail address izontal drilling may be obtained 57th Street, SE, Charleston, WV	o), notice is hereby given that the undersigned lling a horizontal well on the tract of land as for Easting: OTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: (b), this notice shall include the name, additions of the operator and the operator's authorization from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	billows: 531,792.744 4,428,550.461 Big Wheeling Creek Road B&W Edge MSH ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv. gov/oil-and-gas/pages/default.aspx.
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nurrelated to hor located at 601 Notice is he Well Operato Address:	reby given: Vest Virginia Code § 22-6A-16(bwner's land for the purpose of dril West Virginia Marshall Sand Hill Wheeling, WV/OH Grandstaff Run of wheeling Creek (HUC- Shall Include: West Virginia Code § 22-6A-16 nber and electronic mail address izontal drilling may be obtained 57th Street, SE, Charleston, WV reby given by: The SWN Production Company, LLC	o), notice is hereby given that the undersigned as follows a horizontal well on the tract of land as follows as a common of the tract of land as follows as a common of the tract of land as follows as a common of the common of the tract of land as follows as a common of the common o	ollows: 531,792.744 4,428,550.461 Big Wheeling Creek Road B&W Edge MSH ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, app. wv. gov/oil-and-gas/pages/default.aspx. Justin Booth 1300 Fort Pierpont Dr., Suite 201 Morgantown, WV 26508
Wheeling, WV 26 Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 600 Notice is he Well Operato Address: Telephone:	reby given: Vest Virginia Code § 22-6A-16(bwner's land for the purpose of dril West Virginia Marshall Sand Hill Wheeling, WV/OH Grandstaff Run of wheeling Creek (HUC- Shall Include: West Virginia Code § 22-6A-16 nber and electronic mail address izontal drilling may be obtained 57th Street, SE, Charleston, WV reby given by: T: SWN Production Company, LLC 1300 Fort Pierpont Dr., Suite 201	o), notice is hereby given that the undersigned lling a horizontal well on the tract of land as for Easting: UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: (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.defined Authorized Representative: Address: Telephone:	ollows: 531,792,744 4,428,550.461 Big Wheeling Creek Road B&W Edge MSH ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv. gov/oil-and-gas/pages/default.aspx. Justin Booth 1300 Fort Pierpont Dr., Suite 201
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nurrelated to hor located at 601 Notice is he Well Operato Address:	reby given: Vest Virginia Code § 22-6A-16(byner's land for the purpose of dril West Virginia Marshall Sand Hill Wheeling, WV/OH Grandstaff Run of wheeling Creek (HUC- Shall Include: West Virginia Code § 22-6A-16 Inber and electronic mail address izontal drilling may be obtained 57th Street, SE, Charleston, WV reby given by: SWN Production Company, LLC 1300 Fort Pierpont Dr., Suite 201 Morgantown, WV 26508	o), notice is hereby given that the undersigned as follows a horizontal well on the tract of land as follows as a common of the tract of land as follows as a common of the tract of land as follows as a common of the common of the tract of land as follows as a common of the common o	ollows: 531,792,744 4,428,550.461 Big Wheeling Creek Road B&W Edge MSH ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv. gov/oil-and-gas/pages/default.aspx. Justin Booth 1300 Fort Pierpont Dr., Suite 201 Morgantown, WV 26508

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory of 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.

Operator Well No. BW Edge MSH 1H

WW-6A4 (1/12)

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.

Date of Notic	Date Pern	and repplication a new 1011	
Delivery me	thod pursuant to West Virginia Code § 22	2-6A-16(b)	
] HAND	■ CERTIFIED MAIL		
DELIVE		UESTED	
eceipt reque- lrilling a hor of this subsec- ubsection mand if availab	V. Va. Code § 22-6A-16(b), at least ten days sted or hand delivery, give the surface owner izontal well: <i>Provided</i> , That notice given perion as of the date the notice was provided as be waived in writing by the surface owner le, facsimile number and electronic mail ad creby provided to the SURFACE OWN	er notice of its intent to enter upon to bursuant to subsection (a), section to to the surface owner: <i>Provided</i> , hower. The notice, if required, shall incidess of the operator and the operator	he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number,
Votice is ne		Name:	
Address: 244		Address:	
Wheeling, WV 26	5003		
Pursuant to V he surface or	reby given: Vest Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a hor	izontal well on the tract of land as for	ollows:
Pursuant to V he surface or State: County:	Vest Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a hori West Virginia Marshall	izontal well on the tract of land as for Easting: Northing:	bllows: 531,792.744 4,428,550.461
Pursuant to V he surface or State: County: District:	Vest Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a hor West Virginia Marshall Sand Hill	izontal well on the tract of land as for — UTM NAD 83 Easting: Northing: Public Road Access:	531,792.744 4,428,550.461 Big Wheeling Creek Road
ursuant to V	Vest Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a hori West Virginia Marshall	izontal well on the tract of land as for Easting: Northing:	bllows: 531,792.744 4,428,550.461
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Pursuant to V he surface or State: County: District: Quadrangle: Watershed: Fhis Notice Pursuant to V acsimile nur elated to hor ocated at 60 Notice is he Well Operator	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a hortwest Virginia Marshall Sand Hill Wheeling, WV/OH Grandstaff Run of wheeling Creek (HUC-10) Shall Include: West Virginia Code § 22-6A-16(b), this rember and electronic mail address of the option of the contract of the contra	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: notice shall include the name, addiperator and the operator's authoriz Secretary, at the WV Department of 04-926-0450) or by visiting www.de	billows: 531,792.744 4,428,550.461 Big Wheeling Creek Road B&W Edge MSH ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv.gov/oil-and-gas/pages/default.aspx. Justin Booth 1300 Fort Pierpont Dr., Suite 201
Pursuant to Vehe surface of State: County: District: Quadrangle: Vatershed: Fhis Notice Pursuant to Venezimile nurelated to horocated at 60 Notice is he Well Operator Address:	West Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a hore wher's land for the purpose of drilling a hore wher's land for the purpose of drilling a hore where west virginia and Hill wheeling, WV/OH Grandstaff Run of wheeling Creek (HUC-10) Shall Include: West Virginia Code § 22-6A-16(b), this rember and electronic mail address of the optional drilling may be obtained from the state of	izontal well on the tract of land as for the control of the contro	531,792.744 4,428,550.461 Big Wheeling Creek Road B&W Edge MSH ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv.gov/oil-and-gas/pages/default.aspx. Justin Booth 1300 Fort Pierpont Dr., Suite 201 Morgantown, WV 26508
Pursuant to Vehe surface of State: County: District: Quadrangle: Watershed: Pursuant to Vehe Sursuant to Vehe Sursuant to Vehe State of St	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a hortwest Virginia Marshall Sand Hill Wheeling, WV/OH Grandstaff Run of wheeling Creek (HUC-10) Shall Include: West Virginia Code § 22-6A-16(b), this report and electronic mail address of the optional drilling may be obtained from the strict of the	Lizontal well on the tract of land as for the control of the contr	ollows: 531,792.744 4,428,550.461 Big Wheeling Creek Road B&W Edge MSH ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv.gov/oil-and-gas/pages/default.aspx. Justin Booth 1300 Fort Pierpont Dr., Suite 201 Morgantown, WV 26508 304-884-1675
Pursuant to Value surface of State: County: District: Quadrangle: Vatershed: Pursuant to Vaccing acsimile numerated to horocated at 60	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a hore wher's land for the purpose of drilling a hore wher's land for the purpose of drilling a hore wheeling marked by the land of the purpose of drilling a hore wheeling west Virginia Code § 22-6A-16(b), this representation of the operation of the last of the operation of the last of the las	izontal well on the tract of land as for the control of the contro	ollows: 531,792,744 4,428,550,461 Big Wheeling Creek Road B&W Edge MSH ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv.gov/oil-and-gas/pages/default.aspx. Justin Booth 1300 Fort Pierpont Dr., Suite 201 Morgantown, WV 26508 RECEIVED

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.

Operator Well No. BW Edge MSH 1H

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 provide: 06/05/2020 Date Peru		later than the filing plication Filed:	date of permit	application.	
Delivery met	hod pursuant to West Virginia Co	de § 2	2-6A-16(c)	1.		
■ CERTI	FIED MAIL		HAND			
	RN RECEIPT REQUESTED		DELIVERY			
return receipt the planned of required to be drilling of a l damages to th (d) The notice of notice. Notice is her	V. Va. Code § 22-6A-16(c), no late requested or hand delivery, give the peration. The notice required by a provided by subsection (b), section horizontal well; and (3) A proposed se surface affected by oil and gas open as required by this section shall be get the provided to the SURFACE OVER.	surface his sulten of surface rations iven to	the owner whose land besection shall include this article to a surface use and compens to the extent the da the surface owner a	will be used for le: (1) A copy ace owner whose ation agreement mages are com	or the drilling of a of this code sect se land will be use at containing an o pensable under art	horizontal well notice of ion; (2) The information d in conjunction with the ffer of compensation for ticle six-b of this chapter.
	s listed in the records of the sheriff a therwood, Inc., ATTN: Casey Saunders	t the ti	Name:			
Address: 1000	Consol Energy Dr.		Address	;		
Canonsburg, PA	15317					
State: County; District:	the surface owner's land for the pur West Virginia Marshall Sand Hill	pose of	UTM NAD 8 Public Road	Easting: Northing:	531,792.744 4,428,550.461 Big Wheeling Creek R	
Quadrangle:	Wheeling, WV/OH		Generally use	d farm name:	B&W Edge MSH	
Watershed:	Grandstaff Run of Wheeling Creek (HUC-10)		-			
Pursuant to V to be provide horizontal we surface affect information r	Shall Include: Vest Virginia Code § 22-6A-16(c), the dot www. Va. Code § 22-6A-10(b) and (3) A proposed surface use a sted by oil and gas operations to the related to horizontal drilling may be located at 601 57th Street, SE, fault aspx.	nd cor extent e obtai	urface owner whose inpensation agreement the damages are connect from the Secret	land will be a nt containing an empensable und ary, at the WV	used in conjunction offer of compensed of article six-b of Department of E	on with the drilling of a sation for damages to the f this chapter, Additional Environmental Protection
Well Operato	SWN Production Company, LLC		Address	1300 Fort Pierpont	Dr., Suite 201	Office of STREET
Telephone:	304-884-1675			Morgantown, WV 2		Ga
Email:	Justin_Booth@SWN.com		Facsimile:			OCT 1 3 2020
Oil and Gas	Privacy Notice:	Links	mation such as sam	a address and	talanhana numbar	Environment of our regulatory

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.

Operator Well No. BW Edge MSH 1H

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

Daliyary mat	thod pursuant to West Virginia	Codo S	22-6A-16(c)	1	
	arou pursuant to vrest virginia	cone 8	22-0A-10(C)		
CERTI	FIED MAIL		HAND		
RETUI	RN RECEIPT REQUESTED		DELIVERY		
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	s listed in the records of the sheri				
	American Energy, Inc.	_	Name:		
Address: 6126			Addres	S:	-
Moundsville, WV	26041	_			
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Watershed:	Grandstaff Run of Wheeling Creek (HUC-10)			
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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.

RECEIVED Office of Oil and Gas

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

Date of Notic	Requirement: notice shall be provide ee: 06/05/2020 Date Perm	ed no later than the filing date it Application Filed:	of permit application.
Delivery met	hod pursuant to West Virginia Cod	e § 22-6A-16(c)	
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		the time of notice):	
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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 depprivacvofficer@wv.gov.

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

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t to West Virginia Code § 22-	See Waste	3.		
		o West Virginia Code § 22-6A-16(c)	_	

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.

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

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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

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

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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 depprivacy officer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

May 28, 2020

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways

> Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

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 B&W Edge Pad, Marshall County
B&W Edge 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2015-0140 which has been issued to Southwestern Energy for access to the State Road for a well site located off Marshall County Route 5/1 SLS.

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

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Brittany Woody

Southwestern Energy CH, OM, D-6

File

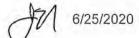
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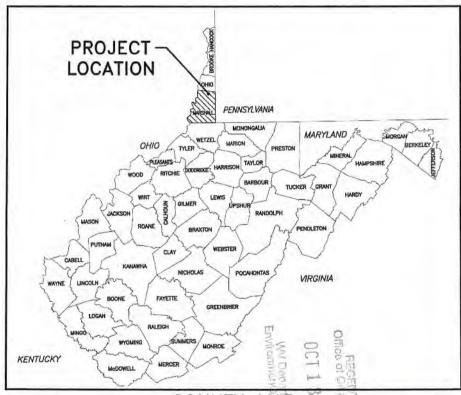
		Attachment VI Frac Additives 4 (U)	COND
Product Name Al-303 (U.S. Well Services)	Product Use Mixture	Chernical Name Ethylene glycol	107-21 1
,		Cinnamaldehyde	104-55 2
		Butyl cellosolve	111-76 2
		Formic acid	64-18 6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol	68424-85-1
Bactron K-219 (Champion Technologies)	ntantala		64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	67-56-1 68424-85-1
CarboNRT	Tracer	Ceramic Proppant	66402-68-4
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
Eco400A (Naico Champion)	Scale Milibitor	Ethylene Glycol	107-21-1
EC6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
	2.00/20	Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
Econo-Cl200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid Potassium acetate	7647-01-0 127-08-2
		Formaldehyde	50-00-0
Ecopol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
Ecopol-reac (SWN Well Services)	Hon Control	Citric Acid	77-92-9
		Water	7732-18-5
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacylate	Proprietary
		Hydrotreated light petroleum distillate	64742-47-8
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol Nonylphenol Ethoxylate	67-56-1
HALAFAE (H. III)	Corrosion Inhibitor	No hazardous substance	Proprietary N/A
HAI-150E (Halliburton)		Hydrochloric Acid	7647-01-0
HCL (SWN Well Services)	Hydrocholic Acid	Water	7732-18-5
LP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
EF-05 INC (Hamburton)	Scarc minister	Ammonium Chloride	12125-02-9
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
Plexslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
Plexslick 953	Friction Reducer	Petroleum Distillate	64742-47-8
		Sodium Chloride Ammonium Chloride	7647-14-5 12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
Plexslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
Plexslick 937	Friction Reducer	Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4 Fm
		Alcohols, C12-16, Exoxylated	68551-12-2
		Water	7732-15-5
WFRA-2000 (U.S. Well Services)	Anionic Friction Reduce	r Hydrotreated light distillate (petroleum)	64742-47-8
		Propenoic acid, polymer with propenamide	9003-06 9
Plexaid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
Plexslick 922	no data available	Copolymer of 2-propenaminde	69418-26-4
		Distillates (petroleum), hydotreated light	64742-47-8
		Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide	12125-02-9 93-83-4
Toleido BSSOA	Biocidal product	Oleic Acid Diethnolamide Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
Tolcide PS50A	biodidai product	Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	22200 30 0
		groups	397256-50-7
LD-2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
	- 11-11-11-11-11-11-11-11-11-11-11-11-11	Ethoxylated alcohol	Proprietary
		Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched	69011-36-5
Lagand LD 7750W	Scale Control	Methanol	67-56-1
	Scale Collinor		
Legend LD-7750W		Phosphonic Acid Salt	Proprietary
MC MX 8-4743	Specialty Product	Phosphonic Acid Salt Sodium Nitrate	7631-99-4

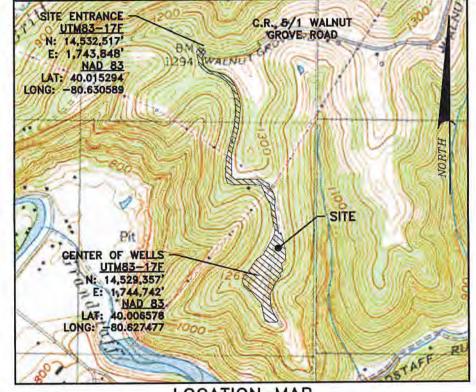
Office of Oil and Gas — OCT I 3 2020 Wy Decrit plent of Wronnieshall relection



AS-BUILT SITE PLAN FOR **B&W EDGE MSH PAD** SAND HILL DISTRICT, MARSHALL COUNTY, WV







COUNTY

CALL BEFORE Dial 811 or 800.245.4848

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND HOLIDAYS), PRIOR TO TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT 811 OR 1-800-245-4848.



OPERATOR

SWN PRODUCTION CO., LLC ATTN: DEE SOUTHALL P.O. BOX 1300 JANE LEW, WV 26378 (832) 796-1614

SITE DATA

TOTAL DISTURBED AREA: 13.88 ACRES ROAD DISTURBED AREA: 7.30 ACRES PAD DISTURBED ACRES: 6.58 ACRES ACCESS ROAD LENGTH: 3,800' ACCESS ROAD AVERAGE WIDTH: 18' WELL PAD ELEVATION: 1254.0'

LOD AREA-FOLMAR PROPERTY-2.2 ACRES (1.7 AC ROAD, 0.5 AC PAD)

API NUMBERS

WELL	
NUMBER	
AS-BUILT	5H
AS-BUILT	205H

API 051-01845 API 051-01843

CELLAR CELLAR CELLAR DIAMETER DEPTH MATERIAL 8 FT 8 FT

LOCATION MAP

LIST OF DRAWINGS

TS1.1 COVER SHEET	
EP2.1 EVACUATION ROUTE/ PREVAILING WIND	S
EP2.2 EVACUATION ROUTE/ PREVAILING WIND	S
AS3.1 AS-BUILT OVERALL SITE PLAN	
AS3.2-AS3.5 AS-BUILT SITE PLAN - ACCESS DRIVE	E
AS3.5 AS-BUILT SITE PLAN - WELL PAD	
CRA4.1-CRA4.2 ACCESS ROAD PROFILE	
CRA4.3 WELL PAD CROSS SECTIONS	
MRP5.1 OVERALL RECLAMATION PLAN	
MRP5.2-MRP5.5 RECLAMATION PLAN	

MRD6.1-MRD6.3. . DETAILS

TS1.1

BY:

PAD MSH

COVER SHEET FOR EDGE

B&W

