

west virginia department of environmental protection

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

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

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

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for BW Edge MSH 410H

47-051-02539-00-00

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.

Chief

Operator's Well Number: BW Edge MSH 410H

Farm Name:

William F Edge, Jr. & Barbara F

U.S. WELL NUMBER:

47-051-02539-00-00

Date Issued: 4/7/2025

Horizontal 6A New Drill

Promoting a healthy environment.

API Number: 47-051-02539

PERMIT CONDITIONS

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

CONDITIONS

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

API NO 77 0-15 1 0 2 5 3 9

OPERATOR WELL NO. BW Edge MSH 410H
Well Pad Name: BW Edge MSH

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

1) Well Operator	: SWN Pr	oduction C	o., LLC	494512924	051-Marshal	6-Sand	674- Wheeling
				Operator ID	County	District	Quadrangle
2) Operator's We	ell Number:	BW Edge	MSH 41	0H Well Pad	Name: BW E	dge MSH	
3) Farm Name/S	urface Own	er: William F. Edge, Jr.	& Barbera Edge-Tod	Public Roa	d Access: Big	Wheeling	Creek Road
4) Elevation, cur	rent ground	1254'	El	levation, proposed	post-constructi	on: 1254'	
, , ,	a) Gas <u>×</u> Other		_ Oil	Unde	erground Storag	ge	
(. /	Shallow Horizontal	x	Deep			
6) Existing Pad:	Yes or No	Yes			_		
7) Proposed Targ	get Formatic arcellus, Down-Di	on(s), Deptho p well to the South	(s), Antic	cipated Thickness a	nd Expected P D-6521', Anticipated 1	ressure(s): Thickness-52', As	ssociated Pressure- 4238
8) Proposed Tota	al Vertical D	epth: 650	1'				
9) Formation at 1	Γotal Vertic	al Depth:	Marcellu	S			
10) Proposed To	tal Measure	d Depth:	18,696'				
11) Proposed Ho	rizontal Le	g Length:	11,660.4	1			
12) Approximate	Fresh Wat	er Strata De	pths:	615'		MARKET .	
13) Method to D	etermine Fr	esh Water D	epths:	Nearby Water We)		
14) Approximate	Saltwater 1	Depths: 13	86' Salin	ity Profile Analysis			
15) Approximate	Coal Seam	Depths: 7	44'				
16) Approximate	Depth to P	ossible Voic	d (coal m	ine, karst, other):	None that we	are aware	of.
17) Does Propos directly overlyin				ms Yes	No	, <u>x</u>	
(a) If Yes, prov	ride Mine Ir	ofo: Name	: :			REC	EIVED Oil and G細
**		Depth	: <u> </u>				A 5 - 2025
		Seam:				MAR	0 1 2023
		Owne	r:			WV Dei	partment of
						Environme	ntal Protection

Sty Wood 1/4/2011

API NO. 477050 5 1 0 2 5 3 9

OPERATOR WELL NO. BW Edge MSH 410H
Well Pad Name: BW Edge MSH

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	136'	136'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	800'	800'	921 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	2070'	2070'	794 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	18696'	18696'	Tall 3369sx/ 100' kside Intermediate
Tubing	ļ						
Liners							

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

PACKERS

Kind:		RECEIVED	
	 	RECEIVED Office of Oil and	Gas
Sizes:			
		MAR 07 202	25
Depths Set:			
		Wy Department	of
	 	WV Department Environmental Prot	ection

Status Gours

WW-6B (10/14)

APINO.477050 5 1 0 2 5 3 9

OPERATOR WELL NO. BW Edge MSH 410H

Well Pad Name: BW Edge MSH

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:
Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 75' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:
Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production units, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 12,500 psi @ 100 barrels a minute.
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 13.88
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 procedures:
All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and
continuing until operator is satisfied with borehole conditions. RECEIVED Office of Oil and Gas
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*Note: Attach additional sheets as needed.

WV Department of Environmental Protection

	-		CEMENT A	DDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	> <	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
ur. to 31	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	\mathbb{N}	INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
us. to 3%	S001	A-7P	CJIIO	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L	$>\!\!<$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	\mathbb{X}	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
INTERMEDIATE	CemNet	> <	\times	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETARY
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	\searrow	$>\!\!<$	CJIII	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	> <	55-II W	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	DO47	FP 28L	$>\!\!<$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	$>\!\!<$	><	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
			CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	>>	>	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	$\overline{}$	\sim	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
PRODUCTION	>>	FL-66	0501	LOW TEMP FLUID	POWDERED POLYSACCHARIDE	PROPRIETARY
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	\times	VISCOSI FIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065	\times	X	DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
	D800	\searrow	X	CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE	8061-51-6

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MAR 07 2025

WV Department of Environmental Protection 11/2025

Proposed Drilling Program Southwestern Energy Company Drilling Rig: SDC 41 Well: **BW EDGE MSH 410H** Formation: Marcellus Shale Field: PANHANDLE FIELD WET State: wv County: MARSHALL SHL (NAD83): 40.006650 Latitude -80.627507 Longitude BHL (NAD83): 39.978831 Latitude -80.604817 Longitude **KB Elev:** KB Height: 2 ft AGL GL Elev: 1,278 ft MSL 1,280 ft MSL NO COAL VOID EXPECTED 136 ' to 820 ' Air/Mist PROD TOC @ 2,070 ' MD 820 ' to 2,090 ' Air/Mist TUBULAR DETAIL Casing Size Weight Grade Planned Interval Casing String (Min) (in) (Min) From 136 94.0# 1-55 2,090 to 5,978 20 0 Conductor 800 Air/Mist Surface/Coal 13.375 54.4 # J-55 0' Intermediate 9.625 36.0# J-55 0 2,070 Production 5.5 20.0# P-110 HP 0' 18,696 CEMENT DETAIL Sarks Class Density Conductor 173 19.3 Surface 921 A/L 15.6 Intermediate 794 A/L 15.6 Production 3369 A/L 14.5-15.0 TD at 5,978 Freshwater Depth - 615 'TVD 5,978 to 7,030 KOP at 5,978 'MD Coal Depth - 744 'TVD 12.0-12.5 ppg Saltwater Depth - 1,386 'TVD TVD - 6,501' TMD - 18,696 ' TD at 18,696 'MD 6,379 ' TVD Target Center 6,501 'TVD LP at 7,030 ' MD Onondaga 6,524 'TVD 7,030 to 18,696 12.5-13.5 ppg SHL Onondaga 6,402 'TVD Created by: Colin Kollker on 06/17/2024

Strappe wower

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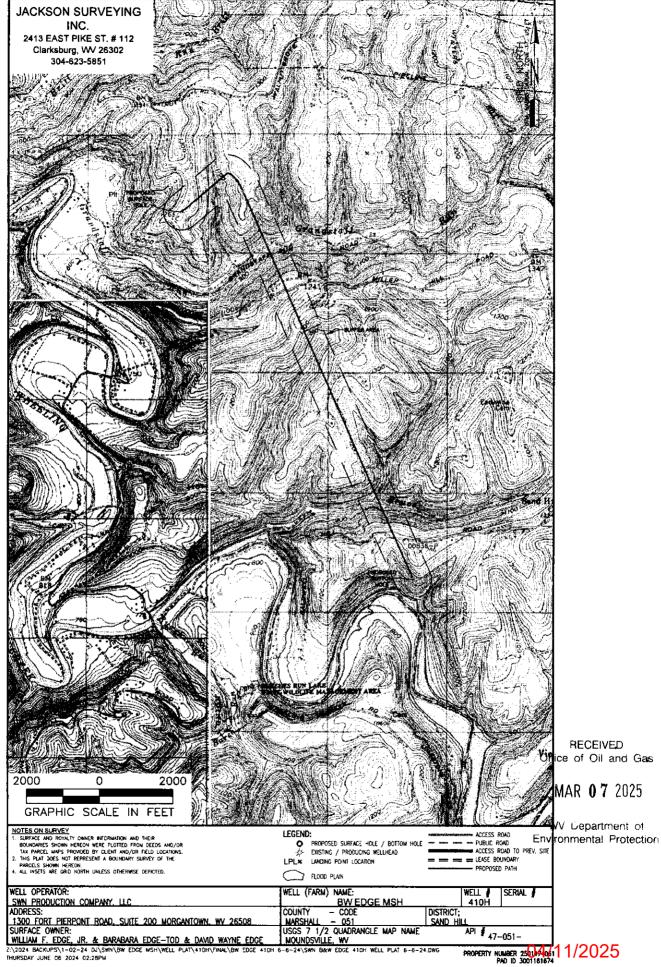
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410H AOR

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation
00836-P+A1:H	Alliance Petroleum Co., LLC	Plugged	39.981795	80.605738	361'	N/A

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WW-9 (4/16)

API Number	47 -	051	•	
One	rator's	Well No	BW Edge MSH 410H	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC	OP Code 494512924
Watershed (HUC 10) Grandstaff Run of Wheeling Creek Quadrangle	Wheeling
Do you anticipate using more than 5,000 bbls of water to complete the proposed w	vell work? Yes 🗸 No
Will a pit be used? Yes No 🗸	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No If	so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
■ Underground Injection (UIC Permit Number Various A Reuse (at API Number At the next anticpiated well	Approved Facilities
Off Site Disposal (Supply form WW-9 for disposal loc	eation)
Other (Explain recovery and solidification on site	
New Per Attractor 24	
Will closed loop system be used? If so, describe: Yes- See Attachment 3A	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwate	er, oil based, etc. Air drill to KOP, fluid tittill with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base	
Additives to be used in drilling medium? Attachment 3B	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill	11
-If left in pit and plan to solidify what medium will be used? (cement, lin	me, sawdust)
-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWI Apex Sanitary Landfill Ub-U8438, Brooke Co SWF-1013, FMS	F-1034, Carbon Limestone MSWL018781, Wetzel County 1021
Permittee shall provide written notice to the Office of Oil and Gas of any load of of West Virginia solid waste facility. The notice shall be provided within 24 hours of where it was properly disposed.	drill cuttings or associated waste rejected at any
I certify that I understand and agree to the terms and conditions of the Gon August 1, 2005, by the Office of Oil and Gas of the West Virginia Department provisions of the permit are enforceable by law. Violations of any term or cond law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and ar application form and all attachments thereto and that, based on my inquiry obtaining the information, I believe that the information is true, accurate, and penalties for submitting false information, including the possibility of fine or imprint	of Environmental Protection. I understand that the dition of the general permit and/or other applicable in familiar with the information submitted on this of those individuals immediately responsible for complete. I am aware that there are significant
Company Official Signature Muttanux Woodux	RECEIVED
Company Official (Typed Name) Brittany Woody	Office of Oil and Gas
Company Official Title Staff Regulatory Specialist	MAR 0 7 2025
Subscribed and sworn before me this 14 day of May	, 20 24 WV Deparment of Environmental Protection
6/23/2029	WEST OFFICIAL SEAL
My commission expires 6/05/2009 V	NOTARY PUBLIC STATE OF WEST VIRGINI, Elizabeth Blankenshir Od Simpsen from Road Weston, WV 28452 My Commission Expires June 23, 20

Operator's Well No. BW Edge MSH 410H

Proposed Revegetation Treatment: Acres Disturbed 13.88	Prevegetation	рН
Lime as determined by pH test min.2 Tons/acre or to correct to pI		
Fertilizer type 10-20-20		
Fertilizer amount 600/500	bs/acre	
Mulch Hay/Straw Tons	/acre	
See	ed Mixtures	
Temporary	Per	manent
Seed Type lbs/acre Attachment 3C	Seed Type	lbs/acre
Attach: Maps(s) of road, location, pit and proposed area for land appliprovided). If water from the pit will be land applied, include decreage, of the land application area.		
Maps(s) of road, location, pit and proposed area for land application area. The second of the land application area. The second of involved 7.5' topographic sheet. The second of the land application area. The second of involved 7.5' topographic sheet.	limensions (L x W x D) of the pit,	
Maps(s) of road, location, pit and proposed area for land application area. The provided is a section of involved 7.5' topographic sheet. The provided by:	limensions (L x W x D) of the pit,	and dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for land application area. The land application area. The land specific	limensions (L x W x D) of the pit,	and dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for land application area. The second of the land application area. The second of involved 7.5' topographic sheet. The second of the land application area. The second of involved 7.5' topographic sheet.	limensions (L x W x D) of the pit,	and dimensions (L x W), and a
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Aaps(s) of road, location, pit and proposed area for land appli rovided). If water from the pit will be land applied, include d	limensions (L x W x D) of the pit,	RECEIVED Office of Oil and Gas MAR 0 7 2025
Maps(s) of road, location, pit and proposed area for land appliprovided). If water from the pit will be land applied, include discreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	limensions (L x W x D) of the pit,	RECEIVED Office of Oil and Gas

Attachment 3A

CLOSED LOOP SYSTEM

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

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

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

AIR DRILLING INTERVALS

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

LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

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

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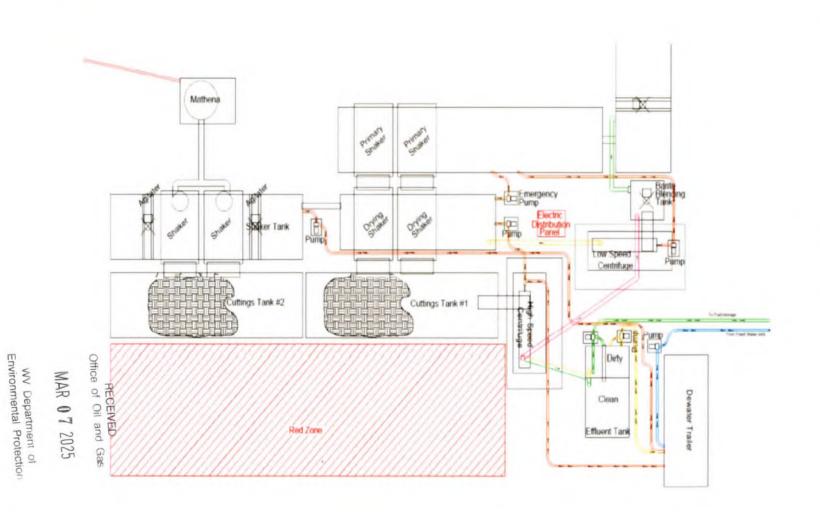
Office of Oil and Gas

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WV Department of Environmental Protection

Solids Control Layout





Drilling Mediums

Surface/Coal (if present)/Freshwater Intervals

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present)

Air

Freshwater (if needed based on conditions)

Brine (if needed, base fluid for mud systems)

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsfiers

Gilsonite

Calcium Carbonate

Friction Reducers

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WV Department of Environmental Protection



WVD Seeding Specification



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

(please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES				
Seed Mixture: ROW Mix	SWN Supplied			
Orchardgrass	40%			
Timothy	15%			
Annual Ryegrass	15%			
Brown Top Millet	5%			
Red Top	5%			
Medium Red Clover 3 8 9	2 5% All legumes as	re		
0	© 5% innoculated at 5x r	norma		
White Clover Birdsfoot Trefoil	5% rate			
Rough Bluegrass	% 5%			
Apply @ 100lbs per acre	Apply @ 200lbs per acre			
April 16th- Oct. 14th	Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat			

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

Seeding Calculation Information:

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

Synopsis:

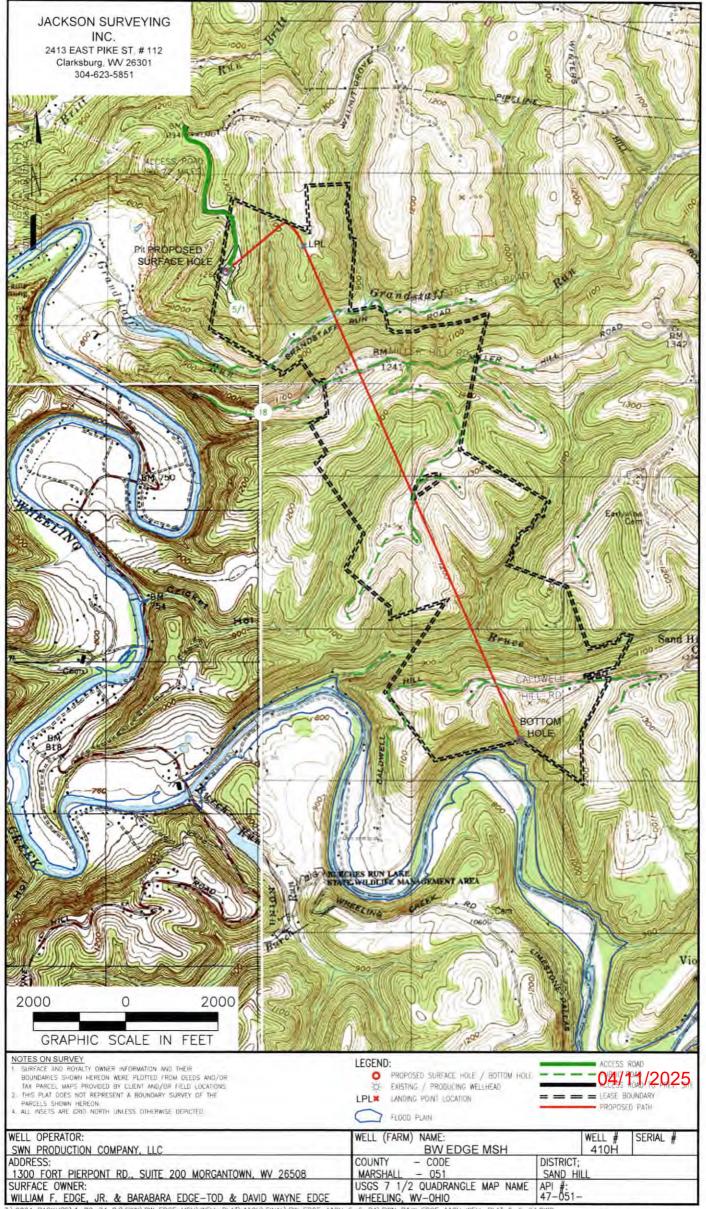
Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).

Special Considerations:

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

ORGANIC PROPERTIES				
Seed Mixture: SWN Production Organic	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%	4		
Showy Tickseed	5%	47		
Fox Sedge	2.5%	0		
Soft Rush	2.5%	S		
Woolgrass	2.5%	-		
Swamp Verbena	2.5%	0		
Apply @ 25lbs per acre	Apply @ 50lbs per acre	N		
April 16th- Oct. 14th	Oct. 15th- April 15th	UT		
NO FERTILIZER OR LIME INSIDE WETLAND LIMITS				



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

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS) NORTHING: 4,428,561,696 EASTING: 531,792,826

ANDING POINT LOCATION (LPL): JTM (NAD83, ZONE 17, METE NORTHING: 4,428,732,914 CASTING: 532,305,909

BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METER NORTHING: 4,425,482,399 EASTING: 533,743,193

LINE	BEARING	DISTANCE	DESCRIPTION
LT	N 04'00'27" E	1621.04	SHL TO LANDMA
15	N 62'46'50" E	1984.76	SHL TO LANDMA
LINE	BEARING	DISTANCE	CURVE LENG
L3	N 71'32'45" E	1774.59	2,331.59

Latitude: 40°00'00" BOTTOM HOLE



7712

HOLE

BOTTOM

HOLE

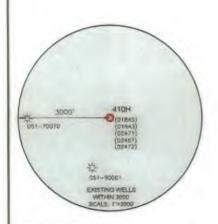
SURFACE

80

ongitude

The second secon	LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
LINE BEARING DISTANCE CURVE LENGTH DESCRIPTION	LT	N 04'00'27" E	1621.04	SHL TO LANDMARK	5/8" REBAR
The second secon	12	N 62'46'50" E	1984.76	SHL TO LANDMARK	5/8" REBAR
L3 N 71"32"45" E 1774.59" 2,331.59" SHL TO LP.	LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
	L3	N 71"32"45" E	1774.59	2,331.59	SHL TO LPL





WELL RESTRICTIONS

WELL RESTRICTIONS

1. NO DECUPIED OWLLINGS > 2500 SO FT. WITHIN 625 FEET OF CENTER OF PAD.

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

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

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

5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

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

NOTES ON SURVEY

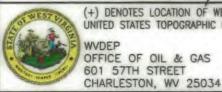


2000 0 2000 GRAPHIC SCALE IN FEET

COMPANY SWN

uction Company, LLC Production Company™

BW EDGE MSH



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

David I Jacks

WVDEP OFFICE OF OIL & GAS 601 57TH STREET DEGREE OF ACCURACY:

PROVEN

1/200

PROVEN SURVEY SOURCE OF GRADE GPS

OPERATOR'S WELL #:

API WELL #:

410H

47

051 COUNTY 02539 PERMIT

WELL TYPE: OIL

WASTE DISPOSAL

PRODUCTION X

DEEP

ELEVATION: (NAVD 88, US FT)

LIQUID INJECTION

STORAGE

SHALLOW X

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

DISTRICT: SAND HILL

COUNTY: MARSHALL

ELEVATION: 1253.7

QUADRANGLE: WHEELING, WV-OHIO ACREAGE: ±87.8 ACREAGE: ±115.8

SURFACE OWNER: WILLIAM F. EDGE, JR. & BARABARA EDGE-TOD & DAVID WAYNE EDGE OIL & GAS ROYALTY OWNER: JOSEPHINE FLETCHER

PERFORATE NEW FORMATION

DRILLX

DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION

CLEAN OUT & REPLUG

OTHER CHANGE (SPECIFY)

PLUG & ABANDON

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC

DESIGNATED AGENT: BRITTANY WOODY

ESTIMATED DEPTH: 6,501046118,62025

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

26508 ZIP CODE:

ADDRESS: 1300 FORT PIERPONT RD., SUITE 200

CITY:

LEGEND:

(S)

PROPOSED SURFACE HOLE / BOTTON HOLE EXISTING / PRODUCING WELLHEAD LPLX LANDING POINT LOCATION

TARGET FORMATION: MARCELLUS

SURVEYED BOUNDARY = = LEASE BOUNDARY
PROPOSED PATH

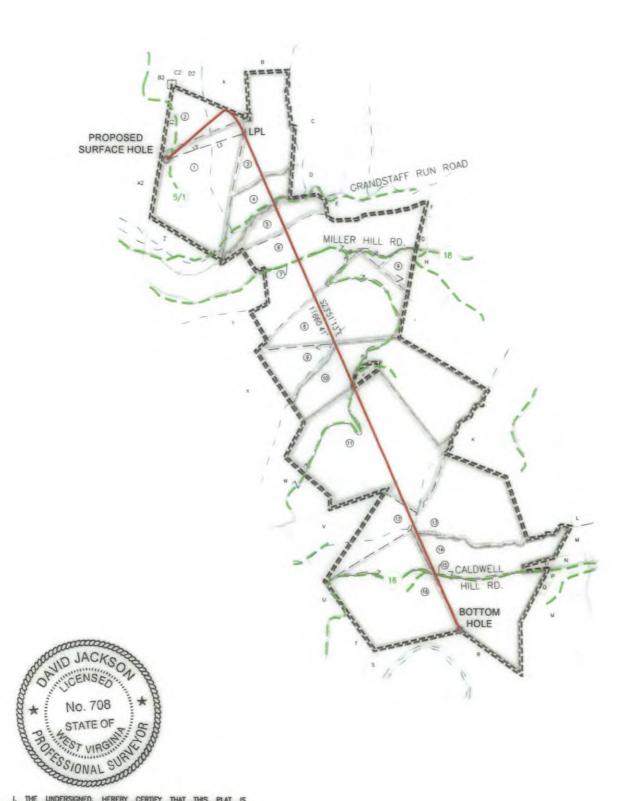
MORGANTOWN STATE: WV ZIP CODE: DATE: 06-06-2024 REVISIONS: DRAWN BY: N. MANO DRAWING NO

EXISTING WATER WELL EXISTING SPRING :\2024 BACKUPS\1-0Z-24 UJ\SWN\BW EDGE MSH\WELL PLAT\410H\FMAL\BW EDGE 410H HURSDAY JUNE 06 2024 09:47AM

PROPERTY NUMBER 2501174061

WELL LOCATION PLAT





David I Jackson

P.S. 708

04/11/2025 COMPANY: REVISIONS: SWN **Production Company** API #: 47-051- 02539 OPERATOR'S BW EDGE MSH DATE: 06-06-2024 410H WELL #: DRAWN BY: N. MANO SCALE: N/A SCALE: N/A
DRAWING NO:
WELL LOCATION PLAT DISTRICT: SAND HILL COUNTY: MARSHALL STATE:

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

	WELL BORE TRACTS	
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	EDGE WILLIAM JR & BARBARA ANN - TOD & DAVID WAYNE EDGE (S)/ FLETCHER JOSEPHINE (R)	12-9-8
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	WHEELING POWER COMPANY (S)	12-9-8.1
3	WV BRIGHTMONT LLC (S)	12-2-14
4	ISALY ROBERT A SR EST (S)	12-2-13
5	GIBSON WILLIAM E (S)	12-9-12
6	PORTER CARLA S (S)	12-9-13
7	WV DEPT OF HIGHWAYS (S)	MILLER HILL RD
8	MERINAR JAMES MARTIN ET UX (S)	12-9-15.1
9	MERINAR CALVIN C - LIFE (S)	12-9-15
10	MERINAR CALVIN C - LIFE (S)	12-9-16
11	MERINAR CALVIN C - LIFE (S)	12-9-18
12	CLAYTON CHARLES W ET AL (S)	12-11-2
13	TOLAND SONDRA J & WILLIAM E (S)	12-9-17
14	TEMPLE TERRY L & BEVERLY J - TOD (S)	12-11-4
15	WV DEPT OF HIGHWAYS (S)	CALDWELL HILL RE
16	EQT TGHL EXPLORATION LLC (S)	12-11-3

	ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER	TAX PARCE
A	WV BRIGHTMONT LLC	12-1-16
В	AND THE STREET STREET STREET	
C	LITMAN BARRY A & KIMBERLY S	12-2-10
D	GFPCORP	12-2-12
E	GFPCORP	12-2-7
F	TDL&G LLC	12-2-8
G	TOTH JOHN J SR & ALICE - TRUST	12-8-4.1
Н	RICHEY RANDY ET UX	12-8-35
1	MERINAR CALVIN C - LIFE	12-8-34
1	MERINAR CALVIN C - LIFE	12-9-16.1
K	TOLAND WILLIAM EUGENE ET AL	12-8-33
L	WINTERS BEVERLY DIANE	12-11-6
M	GRAY DONALD G - TOD & GRAY WYATT MATTHEW	12-11-8
N	GRAY WYATT MATTHEW	12-11-8.5
0	TEMPLE DONALD LEE	12-11-4.1
P	TEMPLE TERRY L & BEVERLY J - TOD	12-11-8.3
Q	TEMPLE TERRY L & BEVERLY J - TOD	12-11-8.4
R	THOMAS RICHARD LEE BARTON	12-11-16
S	HICKEY GLENN M	15-1-6.1
T	HICKEY GLENN M	12-10-8
U	MERINAR KENNETH LET AL	12-10-9
V	MERINAR CALVIN C	12-11-1
W	MERINAR CALVIN C - LIFE	12-9-19
X	FISHER CHARLES B & CARLAS	12-9-20
Y	GRAY JOHN ALVIN EST	12-9-11
Z	ISALY ROBERT A SR EST	12-9-9
A2	FOLMAR EDITH A TRUST	12-1-19
B2	SCHELLHASE MARK A ET UX	12-1-18
C2	SCHELLHASE MARK A & ANDREA K	12-1-15.4
D2	WV BRIGHTMONT LLC	12-1-15

*Highlighted Parcels may be impacted during drilled.

				04/11/2025
REVISIONS:	COMPANY:	SWN Production Company, LLC	SVI Production Company	A-V+0
	OPERATOR'S WELL #:	BW EDGE MSH 410H	API #: 47-051- D 2539	DATE: 06-06-2024 DRAWN BY: N. MANO
	DISTRICT: SAND HILL	COUNTY: MARSHALL	STATE:	SCALE: N/A DRAWING NO: WELL LOCATION PLAT 4

WW-6A1 (5/13) Operator's Well No. BW EDGE MSH 410H

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

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

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

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Exhibit "A"

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

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

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

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

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

Well Operator: SWN Production Company, LLC

By:

Andrew M. Smith

Its:

Landman

Page 1 of 1

Aulu M. Sruto

EXHIBIT "A" BW Edge MSH 410H Marshall County, West Virginia

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

Tract	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
1	12-9-8	Josephine Fletcher f/k/a Josephine Fisher, a married woman	NPAR, LLC	at least 1/8th per	707/584	0.00%
		acting in her sole and separate property NPAR, LLC	Chevron U.S.A. Inc.	WV Code §22-6-8	756/332	
		Chevron U.S.A. Inc.	Statoil USA Onshore Properties Inc.		30/494	
		Chevron U.S.A. Inc.	Chesapeake Appalachia, L.L.C.		30/532	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
2	12-9-8.1	Josephine Fletcher f/k/a Josephine Fisher, a married woman acting in her sole and separate property	NPAR, LLC	at least 1/8th per WV Code §22-6-8	707/584	0.00%
		NPAR, LLC	Chevron U.S.A. Inc.		756/332	
		Chevron U.S.A. Inc.	Statoil USA Onshore Properties Inc.		30/494	
		Chevron U.S.A. Inc.	Chesapeake Appalachia, L.L.C.		30/532	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
3	12-2-14	Chester A. Giza, a widower	TriEnergy Holdings, LLC	at least 1/8th per WV Code §22-6-8	697/483	0.00%
		TriEnergy Holdings, LLC	NPAR, LLC	*** Code 322 0 0	24/180	
		NPAR, LLC	Chesapeake Appalachia, L.L.C.		25/637	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	

EXHIBIT "A" BW Edge MSH 410H

Marshall County, West Virginia

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

Tract	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
4	12-2-13	Robert A. Isaly, Jr. and Margaret A. Isaly, Husband and Wife	Chesapeake Appalachia, LLC	at least 1/8th per	834/199	0.00%
		Chesapeake Appalachía, L.L.C.	SWN Production Company, LLC	WV Code §22-6-8	33/110	
		Connie S. Harris, a married woman dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1073/30	0.00%
		Edward L. Gardner, II, a married man dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1074/486	0.00%
		Scott A. Gardner, a married man dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1073/44	0.00%
		Eric M. Gordon, Esq., as Special Commissioner on behalf of James E. Isaly and his Unknown or Missing Heirs and Beneficiaries, pursuant to Order of the Marshall County Cicuit Court in Civil Action No. 21-C-36.	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1114/358	0.00%
5	12-9-12	William E. Gibson, married, dealing in his separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1080/511	0.00%
		Eric M. Gordon, Esq., as Special Commissioner on behalf of Leota Campbell Ferrell and her Unknown or Missing Heirs and Beneficiaries, pursuant to Order of the Marshall County Circuit Court in Civil Action No. 20-C-78	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1106/576	0.00%
6	12-9-13	Greenbrier Royalty Fund II, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1210/658	0.00%
7	Miller Hill Road	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1187/293	0.00%
8	12-9-15.1	James Martin Merinar and Belinda J. Merinar, his wife	Great Lakes Energy Partners, LLC	at least 1/8th per WV Code §22-6-8	655/81	0.00%
		Great Lakes Energy Partners, L.L.C.	Range Resources – Appalachia, LLC.		19/443	
		Range Resources – Appalachia, LLC	Chesapeake Appalachia, L.L.C.		23/368	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	

EXHIBIT "A" BW Edge MSH 410H Marshall County, West Virginia

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

Tract	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
9	12- 9 -15	Calvin C. Merinar, divorced, dealing in his sole and separate property	Great Lakes Energy Partners, LLC	at least 1/8th per WV Code §22-6-8	652/32	0.00%
		Great Lakes Energy Partners, L.L.C.	Range Resources – Appalachia, LLC.		19/443	
		Range Resources – Appalachia, LLC	Chesapeake Appalachia, L.L.C.		23/368	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
10	12-9-16	Melvin W. Kahle, Jr. (50% Interest), representing himself individually and as Attorney-in-Fact (Agent) of his sister, Rosemary Comstock, a widow, (50% Interest)	Great Lakes Energy Partners, LLC	at least 1/8th per WV Code §22-6-8	654/270	0.00%
		Great Lakes Energy Partners, L.L.C.	Range Resources – Appalachia, LLC.		19/443	
		Range Resources ~ Appalachia, LLC	Chesapeake Appalachia, L.Ł.C.		23/368	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
11	12- 9 -18	Calvin C. Merinar, a single man	TH Exploration, LLC	at least 1/8th per WV Code §22-6-8	1136/207	0.00%
		EQT TGHL Exploration, LLC f/k/a TH Exploration, LLC	SWN Production Company, LLC		1202/119	
12	12-11-2	Gregory P. Clayton and Denise Clayton, husband and wife	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1067/469	0.00%
13	12-9-17	Randy Ray Brunner and Mary June Brummer, his wife	American Petroleum Partners Operating, LLC	at least 1/8th per WV Code §22-6-8	920/105	0.00%
		American Petroleum Partners Operating, LLC	SWN Production Company, LLC		45/381	
		Resource Minerals Headwater I, LP	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1190/312	0.00%
14	12-11-4	Golden Eagle Resources, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1183/166	0.00%
15	Caldwell Hill Road	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1187/287	0.00%
16	12-11-3	APP Minerals, LLC	American Petroleum Partners Operating, LLC	at least 1/8th per WV Code §22-6-8	1091/439	0.00%
		American Petroleum Partners Operating, LLC	SWN Production Company, LLC		48/263	

EXHIBIT "A"

BW Edge MSH 410H

Marshall County, West Virginia

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

Tract	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
Α	12-1-16	Chester A. Giza, a widower	TriEnergy Holdings, LLC	at least 1/8th per WV Code §22-6-8	697/483	0.00%
		TriEnergy Holdings, LLC	NPAR, LLC		24/180	
		NPAR, LLC	Chesapeake Appalachia, L.L.C.			
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
J	12-9-16.1	Calvin C. Merinar, divorced, dealing in sole and separate property	Great Lakes Energy Partners, L.L.C.	at least 1/8th per WV Code §22-6-8	652/32	0.00%
		Great Lakes Energy Partners, L.L.C.	Range Resources – Appalachia, LLC.		19/443	
		Range Resources – Appalachia, LLC	Chesapeake Appalachia, L.L.C.		23/368	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	

End of Exhibit "A"

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



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

February 17, 2025

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

RE: SWN's proposed New Well: BW Edge MSH 410H in Marshall County, West Virginia, Drilling under Granstaff Run Road, Miller hill Road, and Caldwell Hill Road.

Dear Mr. Brewer:

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

Thank you.

Sincerely,

Andrew Smith

Landman

SWN Production Company, LLC

anh m. Suits

R2 nV+°

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

	ما	NOTICE CERTIFICATION	
Date of Notic	ce Certification:	API No.	17- 051
Date of Moth	et certification.		's Well No. BW Edge MSH 410H
			Name: BW Edge MSH
Notice has I	been given:		
		e § 22-6A, the Operator has provided the re	equired parties with the Notice Forms listed
	tract of land as follows:		•
State:	West Virginia	UTM NAD 83 Easting:	531,792,826
County:	051-Marshall	Northing:	4,428,561.696
District:	Sand Hill	Public Road Access:	Big Wheeling Creek Road
Quadrangle:	Wheeling	Generally used farm name:	BW Edge MSH
Watershed:	Grandstaff Run of Wheeling Creek		
of this article Pursuant to	have been completed by the application. West Virginia Code § 22-6A, the	cant. Operator has attached proof to this Notice	y that the notice requirements of section ten Certification
that the Ope	erator has properly served the requ	ired parties with the following:	OOC OFFICE USE
*PLEASE CHI	ECK ALL THAT APPLY		OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY	or NOTICE NOT REQUIRED BECA SEISMIC ACTIVITY WAS CONDU	- 1000011201
■ 2. NO	TICE OF ENTRY FOR PLAT SU	RVEY or NO PLAT SURVEY WAS	CONDUCTED RECEIVED
■ 3 NO	TICE OF INTENT TO DRILL	or NOTICE NOT REQUIRED BECA	AUSE RECEIVED/
_ 5, 110	HEL OF HATELAN TO DIALE	NOTICE OF ENTRY FOR PLAT SUI	- KECELI, EDI
		WAS CONDUCTED or	RVEY NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFA (PLEASE ATTACH)	ACE OWNER
■ 4, NO	TICE OF PLANNED OPERATIO	N	☐ RECEIVED
■ 5. PUE	BLIC NOTICE		□ RECEIVED

Required Attachments:

6. NOTICE OF APPLICATION

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.

☐ RECEIVED

Telephone:

4705102539

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.

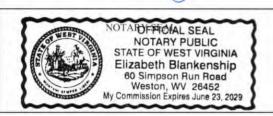
Well Operator: SWN Production Co., LLC By: Brittany Woody Its:

Staff Regulatory Specialist 304-884-1610

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

Facsimile: 304-884-1690

Email: Brittany_Woody@swn.com



My Commission Expires

Oil and Gas Privacy Notice:

API NO 447 040 5 1 0 2 5 3 9
OPERATOR WELL NO, BW Edge MSH 410H
Well Pad Name: BW Edge MSH

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. _ Date Permit Application Filed: 5 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☑ REGISTERED ☐ METHOD OF DELIVERY THAT REQUIRES A PERSONAL RECEIPT OR SIGNATURE CONFIRMATION SERVICE MAIL Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: American Consolidated Natural Resources Attn: Steve Blair Name: Barbara Ann & William F. Edge Address: 46226 National Road Address: 1116 Virginia Street St. Clairsville OH 43950 Martins Ferry, OH 43935 COAL OPERATOR Name: David Wayne Edge Address: 27 Pine Lane Name: Wheeling WV 26003 Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) SURFACE OWNER OF WATER WELL Name: AND/OR WATER PURVEYOR(s) Address: Name: None Address: Name: Address: □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD □ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Name: Address: *Please attach additional forms if necessary

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API NO. 47-051
OPERATOR WELL NO. BW Edge MSH 410H
Well Pad Name: BW Edge MSH

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

votice Time Requirement: notice shall be provided in	to later than the filing date of permit application.
Date of Notice: Date Permit Application I	Filed: 3 U
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	E OF APPROVAL FOR THE
WELL WORK CONSTRUCT	TON OF AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code §	22-6A-10(b)
☐ PERSONAL ☑ REGISTERED ☐	METHOD OF DELIVERY THAT REQUIRES A
SERVICE MAIL	RECEIPT OR SIGNATURE CONFIRMATION
SERVICE MAIL	RECEIF FOR SIGNATURE CONFIRMATION
sediment control plan required by section seven of this are the surface of the tract on which the well is or is proposed and gas leasehold being developed by the proposed we described in the erosion and sediment control plan submit operator or lessee, in the event the tract of land on which more coal seams; (4) The owners of record of the surface well work, if the surface tract is to be used for the placem impoundment or pit as described in section nine of this are have a water well, spring or water supply source located we provide water for consumption by humans or domestic an oroposed well work activity is to take place. (c)(1) If more proposed well work activity is to take place. (c)(1) If more provision (b) of this section hold interests in the lands, the ecords of the sheriff required to be maintained pursuant to code R. § 35-8-5.7.a requires, in part, that the operator silvater purveyor or surface owner subject to notice and war	
☐ Application Notice ☐ WSSP Notice ☐ E&S Pla	in Notice Well Plat Notice is hereby provided to:
SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: Edith Folmer Trust IN CARE OF: Carol Snyder	Name:
Address: 4206 SW 13th Ave	Address:
Cape Coral FL 33914	
Name: Wheeling Power Company	□ COAL OPERATOR
Address: 1 Riverside Place	Name:
Columbus, OH 43215	Address:
SURFACE OWNER(s) (Road and/or Other Disturba	nce)
Name:	☐ SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name:
Name:	Address:
Address:	
	□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	
	*Please attach additional forms if necessary

4705102539

API NO. 47- 051

OPERATOR WELL NO. BW Edge MSH 410H

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/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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

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OPERATOR WELL NO. BW Edge MSH 410H Well Pad Name: BW Edge MSH

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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.

PINO. 47-057 0 5 1 0 2 5 3 9

OPERATOR WELL NO. BW Edge MSH 410H
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.

API NO. 47-051 0 5 1 0 2 5 3 9

OPERATOR WELL NO. BW Edge MSH 410H Well Pad Name: BW Edge MSH

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

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

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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

See 2 m



Subscribed and sworn before me this 14 day of May, 2024.

Notary Public

My Commission Expires



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

GISTERED METHOD OF DELIVERY THAT REQUIRES A IL RECEIPT OR SIGNATURE CONFIRMATION 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry any plat surveys required pursuant to this article. Such notice shall be provided at least seven days rior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any in tract in the county tax records. The notice shall include a statement that copies of the state Erosion the statutes and rules related to oil and gas exploration and production may be obtained from the include contact information, including the address for a web page on the Secretary's web site, to copies from the secretary. COAL OWNER OR LESSEE Name: American Consolidated Natural Resources Address: 46226 National Road St. Clairsville OH 43950
22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry any plat surveys required pursuant to this article. Such notice shall be provided at least seven days rior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any in tract in the county tax records. The notice shall include a statement that copies of the state Erosion the statutes and rules related to oil and gas exploration and production may be obtained from the include contact information, including the address for a web page on the Secretary's web site, to copies from the secretary. COAL OWNER OR LESSEE Name: American Consolidated Natural Resources Address: 46226 National Road St. Clairsville OH 43950
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Name: American Consolidated Natural Resources Address: 46226 National Road St. Clairsville OH 43950
Name: American Consolidated Natural Resources Address: 46226 National Road St. Clairsville OH 43950
Address: 46226 National Road St. Clairsville OH 43950
St. Clarsville OH 43950
I MINIED AL OWNIED (A)
0 W V O
Address.
*please attach additional forms if necessary
press ander additional forms it necessary
22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct s follows:
22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct s follows: Approx. Latitude & Longitude: 40.015294, -80.630
22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct s follows:
MINERAL OWNER Name: Barbara Ann & William F. Address: 7115 Paste Drive Martins Ferry, OH 43935 *nlesse attach additional forms in

Oil and Gas Privacy Notice:

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

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WNER OR LESSEE
WNER OR LESSEE
AL OWNER(s)
ayne Edge
ne Island Road
3
ditional forms if necessary
& Longitude: 40.015294, -80.630 Big Wheeling Creek Road
Upper Ohio South
rm name: B & W Edge MSH
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Oil and Gas Privacy Notice:

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

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

Notice Time Date of Notic	e: 06/24/2024		ed at least TEN (10) days prior to filing a Permit Application Filed:	- permit approaches
Delivery met	nod pursuant t	o West Virginia Cod	e § 22-6A-16(b)	
☐ HAND	•	CERTIFIED MAIL		
DELIVE		RETURN RECEIPT	REQUESTED	
receipt reques drilling a hori of this subsec subsection ma and if availab	ted or hand delizontal well: Prion as of the day be waived in e, facsimile nur	very, give the surface covided. That notice gi te the notice was prov writing by the surface	owner notice of its intent to enter upon the iven pursuant to subsection (a), section to ided to the surface owner: <i>Provided, how</i> owner. The notice, if required, shall include all address of the operator and the operator	, an operator shall, by certified mail return 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, or's authorized representative.
Name: Wheeling		to the SURFACE	Name:	
Address: 1 Riv			Address:	
Columbus, OH 43	125			
Notice is he Pursuant to W	eby given:	ode § 22-6A-16(b), no	tice is hereby given that the undersigned	well operator has an intent to enter upon
Notice is her Pursuant to W the surface ov State: County:	reby given: lest Virginia Comer's land for t wv Marshall	ode § 22-6A-16(b), no he purpose of drilling	a horizontal well on the tract of land as for the boundary of	531,792.826 4,428,561.696
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Notice is he Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601	reby given: lest Virginia Comer's land for the word of	Nheeling Code § 22-6A-16(b), onic mail address of may be obtained from Charleston, WV 253	a horizontal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: this notice shall include the name, address authorized the operator and the operator's authorized the Secretary, at the WV Department of	ollows: 531,792.826 4,428,561.696 Grandstaff Run Road BW EDGE ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters.
Notice is he Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile nun related to hor located at 601	reby given: est Virginia Comer's land for t wv Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of t Shall Include /est Virginia Cober and electrozontal drilling	Wheeling Code § 22-6A-16(b), onic mail address of may be obtained from Charleston, WV 253	a horizontal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: this notice shall include the name, address authorized the operator and the operator's authorized the Secretary, at the WV Department of	billows: 531,792.826 4,428,561.696 Grandstaff Run Road BW EDGE 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 W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile nun related to hor located at 601	reby given: est Virginia Comer's land for towner's land limit wheeling, wv-OH Grandstaff Run of the Shall Include lest Virginia Cober and electrozontal drilling 57th Street, SE, reby given by swn Production	Wheeling Code § 22-6A-16(b), onic mail address of may be obtained from Charleston, WV 253	a horizontal well on the tract of land as for Easting: UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: this notice shall include the name, address authorized the operator and the operator's authorized the Secretary, at the WV Department of the Secretary at the	billows: 531,792.826 4,428,561.696 Grandstaff Run Road BW EDGE 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 W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile nun related to hor located at 601 Notice is he Well Operator	reby given: est Virginia Comer's land for towner's land limit wheeling, wv-OH Grandstaff Run of the Shall Include lest Virginia Cober and electrozontal drilling 57th Street, SE, reby given by swn Production	Wheeling Code § 22-6A-16(b), onic mail address of may be obtained from Charleston, WV 253 Company, LLC ont Dr., Suite 201	a horizontal well on the tract of land as for Easting: UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: this notice shall include the name, address authorized the Secretary, at the WV Department of the Secretary at the WV Department of the WV Department of the	531,792.826 4,428,561.696 Grandstaff Run Road BW EDGE 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 W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601 Notice is he Well Operator	reby given: est Virginia Comer's land for t wv Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of t Shall Include /est Virginia Cober and electrozontal drilling 57th Street, SE, reby given by SWN Production 1300 Fort Pierp	Wheeling Code § 22-6A-16(b), onic mail address of may be obtained from Charleston, WV 253 Company, LLC ont Dr., Suite 201	a horizontal well on the tract of land as for Easting: UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: this notice shall include the name, address authorized the Secretary, at the WV Department of the Secretary at the WV Department of the WV Department of the	billows: 531,792.826 4,428,561.696 Grandstaff Run Road BW EDGE ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Reid Croft 1300 Fort Pierpont Dr., Suite 201

Oil and Gas Privacy Notice:

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

	e: 06/24/2024 Date Permit	Application Filed:	3 u	application.
Delivery met	hod pursuant to West Virginia Code	§ 22-6A-16(c)	1	
■ CERTI	FIED MAIL] HAND		
- 2000000	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	requested or hand delivery, give the sur- operation. The notice required by this e provided by subsection (b), section ten- horizontal well; and (3) A proposed su- le surface affected by oil and gas operation	rface owner whose lan subsection shall inclu of this article to a sur- rface use and compen- ions to the extent the d in to the surface owner	d will be used for de: (1) A copy ace owner whose sation agreemer amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the addres	s listed in the records of the sheriff at the			
Name: Wheeling		Name:		
Address: 1 Riv		Addres	s:	
Columbus, OH 43	125	_		
Notice is her Pursuant to W	est Virginia Code § 22-6A-16(c), notice	e is hereby given that t	he undersigned	wall operator has developed a planned
operation on State: County: District:	the surface owner's land for the purpose WV Marshall Sand Hill		Easting: Northing:	
operation on State: County: District:	the surface owner's land for the purpose WV Marshall	e of drilling a horizont UTM NAD Public Road	Easting: Northing:	act of land as follows: 531,792.826 4.428,561.696
	the surface owner's land for the purpose WV Marshall Sand Hill	e of drilling a horizont UTM NAD Public Road	al well on the tra Basting: Northing: Access:	act of land as follows: 531,792.826 4.428,561.696 Grandstaff Run Road
operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information r headquarters,	the surface owner's land for the purpose WV Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(c), this red by W. Va. Code § 22-6A-10(b) to a dl; and (3) A proposed surface use and ded by oil and gas operations to the extelated to horizontal drilling may be oblocated at 601 57 th Street, SE, Cha	Public Road Generally us notice shall include: (1 a surface owner whose compensation agreement the damages are contained from the Secre	Easting: Northing: Access: ed farm name: A copy of this e land will be ent containing arompensable unctary, at the WV	10t of land as follows: 531,792.826 4.428,561.696 Grandstaff Run Road
operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information r headquarters, gas/pages/def	the surface owner's land for the purpose WV Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(c), this red by W. Va. Code § 22-6A-10(b) to a code by oil and gas operations to the extension of the exte	Public Road Generally us notice shall include: (1 a surface owner whose compensation agreement the damages are contained from the Secretarleston, WV 25304	Easting: Northing: Access: ed farm name: A copy of this e land will be ent containing arompensable unctary, at the WV (304-926-0450)	set of land as follows: 531,792,826 4,428,581,696 Grandstaff Run Road BW EDGE code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	the surface owner's land for the purpose wv Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(c), this red by W. Va. Code § 22-6A-10(b) to a cll; and (3) A proposed surface use and red by oil and gas operations to the extellated to horizontal drilling may be oblocated at 601 57th Street, SE, Chalault.aspx. T: SWN Production Company, LLC	Public Road Generally us notice shall include: (1 a surface owner whose compensation agreement the damages are contained from the Secre	Easting: Northing: Access: ed farm name: A copy of this e land will be ent containing arompensable unctary, at the WV (304-926-0450)	set of land as follows: 531,792,826 4,428,561,696 Grandstaff Run Road BW EDGE code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-Dr., Suite 201
operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information r	the surface owner's land for the purpose WV Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(c), this red by W. Va. Code § 22-6A-10(b) to a code by oil and gas operations to the extension of the exte	Public Road Generally us notice shall include: (1 a surface owner whose compensation agreement the damages are contained from the Secretarleston, WV 25304	Easting: Northing: Access: ed farm name: A copy of this e land will be ent containing arompensable unctary, at the WV (304-926-0450)	set of land as follows: 531,792,826 4,428,561,696 Grandstaff Run Road BW EDGE code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-Dr., Suite 201

Oil and Gas Privacy Notice:

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

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

Notice Time Date of Notic	Requirement: Notice shall be provided at le e: O6/24/2024 Date Perm	east TEN (10) days prior to bling a it Application Filed:	permit application.
Delivery met	hod pursuant to West Virginia Code § 22-	-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE		JESTED	
receipt request drilling a hore of this subsect subsection 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 pution as of the date the notice was provided to be waived in writing by the surface owner le, facsimile number and electronic mail add	r notice of its intent to enter upon the ursuant to subsection (a), section to the surface owner: <i>Provided, hower.</i> The notice, if required, shall includes of the operator and the operator	the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this lude the name, address, telephone number.
Notice is he Name: David W	reby provided to the SURFACE OWN	NER(s): Name:	
Address: 27 P		Address:	
Wheeling, WV 26			
State: County:	vner's land for the purpose of drilling a horiz	UTM NAD 83 Easting: Northing:	531,792.826 4,428,561.696
District: Quadrangle:	Sand Hill Wheeling, WV-OH	Public Road Access: Generally used farm name:	Grandstaff Run Road BW EDGE
Watershed:	Grandstaff Run of Wheeling	Generally used farm fiame.	BW EBGE
Pursuant to V facsimile nur related to hor	Shall Include: West Virginia Code § 22-6A-16(b), this not note and electronic mail address of the optizontal drilling may be obtained from the Street, SE, Charleston, WV 25304 (30)	erator and the operator's authorize Secretary, at the WV Department of	ed representative. Additional information of Environmental Protection headquarters,
	reby given by: r: SWN Production Company, LLC	Authorized Representative:	Reid Croft
Address:	1300 Fort Pierpont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite 201
T. T	Morgantown, WV 26508		Morgantown, WV 26508
Telephone:			
	304-231-8329	Telephone:	304-231-8329

Oil and Gas Privacy Notice:

WW-6A5 (1/12)

Operator Well No. BW EDGE MSH 410H

STATE OF WEST VIRGINIA 47 0 5 1 0 2 5 3 9 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

CERTIF RETUR Pursuant to W return receipt the planned o required to be	hod pursuant to West Virginia Cod FIED MAIL EN RECEIPT REQUESTED V. Va. Code § 22-6A-16(c), no later	e § 22-6A-16(c) HAND DELIVERY		
RETUR Pursuant to W return receipt the planned o required to be	N RECEIPT REQUESTED			
RETUR Pursuant to W return receipt the planned o required to be	N RECEIPT REQUESTED			
return receipt the planned o required to be	/. Va. Code § 22-6A-16(c), no later			
damages to the (d) The notice of notice. Notice is here	requested or hand delivery, give the separation. The notice required by the provided by subsection (b), section to norizontal well; and (3) A proposed sees surface affected by oil and gas open as required by this section shall be given by provided to the SURFACE OW	surface owner whose is subsection shall in en of this article to a surface use and compations to the extent the ten to the surface own NER(s)	land will be used for clude: (1) A copy surface owner whose sensation agreement e damages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	s listed in the records of the sheriff at			
Name: David Wa		Nan		
Address: 27 Pir Wheeling, WV 260		Add	ress:	
	the surface owner's land for the purpo		ontal well on the tra	well operator has developed a planned act of land as follows: 531,792.826 4,428.561.696
District:	Sand Hill	Public Re	ad Access:	Grandstaff Run Road
Quadrangle:	Wheeling, WV-OH		used farm name:	BW EDGE
Watershed:	Grandstaff Run of Wheeling	Generally	used farm name,	
to be provide horizontal wel surface affects information re	est Virginia Code § 22-6A-16(c), this d by W. Va. Code § 22-6A-10(b) to ll; and (3) A proposed surface use and ed by oil and gas operations to the elated to horizontal drilling may be clocated at 601 57th Street, SE,	a surface owner what d compensation agree extent the damages are obtained from the Se	nose land will be a ment containing are e compensable und cretary, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-department
headquarters, gas/pages/defa				
		Addres	S: 1300 Fort Pierpont I	Dr., Suite 201
gas/pages/defa		Addres	S: 1300 Fort Pierpont D Morgantown, WV 26	

Oil and Gas Privacy Notice:

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

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

Date of Notic		Ill be provided at least TEN (10) days prior to filing a Date Permit Application Filed:	permit application.
Delivery met	hod pursuant to West Vi	irginia Code § 22-6A-16(b)	
☐ HAND	■ CERTIFIE	ED MAII	
DELIVE		RECEIPT REQUESTED	
receipt reque drilling a hor of this subsection mand if available	ted or hand delivery, give zontal well: <i>Provided</i> . The tion as of the date the notice by be waived in writing by the, facsimile number and e), at least ten days prior to filing a permit application, the surface owner notice of its intent to enter upon that notice given pursuant to subsection (a), section te ice was provided to the surface owner: <i>Provided, how the surface owner</i> . The notice, if required, shall inclicate the content of the operator and the operator	ne surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this ude the name, address, telephone number,
		URFACE OWNER(s):	
Address: 4206	EDITH A TRUST, In Care of: SNYDE	ER CAROL Name:Address:	
CAPE CORAL F		Address.	
State: County: District: Quadrangle:	WV Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling	e of drilling a horizontal well on the tract of land as fo UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	531,792.826 4,428,561.696 Grandstaff Run Road BW EDGE
Watershed:	Grandstall Run of Writeeling		
This Notice Pursuant to 'facsimile nur related to ho	Shall Include: West Virginia Code § 22- aber and electronic mail a izontal drilling may be ob	address of the operator and the operator's authorized brained from the Secretary, at the WV Department on, WV 25304 (304-926-0450) or by visiting <a href="https://www.dee.gov.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb</td><td>ed representative. Additional information
f Environmental Protection headquarters,</td></tr><tr><td>This Notice
Pursuant to 'facsimile nur
related to hoo
located at 60'</td><td>Shall Include:
West Virginia Code § 22-
aber and electronic mail a
izontal drilling may be ob</td><td>address of the operator and the operator's authorize
btained from the Secretary, at the WV Department o</td><td>ed representative. Additional information
f Environmental Protection headquarters,</td></tr><tr><td>This Notice
Pursuant to 'facsimile nur
related to hor
located at 60'</td><td>Shall Include: West Virginia Code § 22- ber and electronic mail a izontal drilling may be ob 57th Street, SE, Charleston</td><td>address of the operator and the operator's authorize brained from the Secretary, at the WV Department on, WV 25304 (304-926-0450) or by visiting <a href=" https:="" td="" www.deox.org="" www.deox.org<=""><td>ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.</td>	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
This Notice Pursuant to 'facsimile nur related to hor located at 60'	Shall Include: West Virginia Code § 22- hber and electronic mail a izontal drilling may be ob 57th Street, SE, Charleston reby given by:	address of the operator and the operator's authorized brained from the Secretary, at the WV Department of the operator, www.de operator and the operator's authorized Representative:	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
This Notice Pursuant to 'facsimile nur related to hor located at 60' Notice is he Well Operato	Shall Include: West Virginia Code § 22- aber and electronic mail a izontal drilling may be ob 57th Street, SE, Charleston reby given by: SWN Production Company, Li	address of the operator and the operator's authorized brained from the Secretary, at the WV Department of the operator, www.de operator and the operator's authorized Representative:	ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
This Notice Pursuant to 'facsimile nur related to hor located at 60' Notice is he Well Operato	Shall Include: West Virginia Code § 22- aber and electronic mail a izontal drilling may be ob 57th Street, SE, Charleston reby given by: SWN Production Company, L 1300 Fort Pierpont Dr., Suite	address of the operator and the operator's authorized brained from the Secretary, at the WV Department of the operator, www.de operator and the operator's authorized Representative:	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Reid Croft 1300 Fort Pierpont Dr., Suite 201

Oil and Gas Privacy Notice:

WW-6A5 (1/12)

Operator Well No. BW EDGE MSH 410H

STATE OF WEST VIRGINIA 47 0 5 1 0 2 5 3 9 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Date of Notic	Requirement: notice shall be provide: 06/24/2024 Date Peri	mit Application Filed:	3 U	
Delivery met	thod pursuant to West Virginia Co	ode § 22-6A-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.	requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A proposed he surface affected by oil and gas oper required by this section shall be g	e surface owner whose lan this subsection shall inclu ten of this article to a surf d surface use and compen erations to the extent the d given to the surface owner	I will be used fi de: (1) A copy ace owner who ation agreement mages are com	ication, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for spensable under article six-b of this chapter, sted in the records of the sheriff at the time
Notice is her	eby provided to the SURFACE OV	WNER(s)		
	s listed in the records of the sheriff a	it the time of notice): Name:		
ranic.		ivaine.		
	SW 13TH AVE	Addres		
Address: 4206 CAPE CORAL FL	eby given:	Addres		wall operator has developed a planned
Address: 4206 CAPE CORAL FL Notice is here Pursuant to W operation on State: County:	eby given: /est Virginia Code § 22-6A-16(c), no the surface owner's land for the purpown	otice is hereby given that t pose of drilling a horizonta UTM NAD 8	ne undersigned I well on the tra Easting: Northing:	531,792,826 4,428,561,696
Address: 4206 CAPE CORAL FL Notice is here Pursuant to W operation on State: County: District:	eby given: Vest Virginia Code § 22-6A-16(c), not the surface owner's land for the purpowy WV Marshall Sand Hill	otice is hereby given that t pose of drilling a horizonta UTM NAD 8 Public Road	ne undersigned I well on the tra 3 Easting: Northing: Access:	act of land as follows: 531,792,826 4,428,561,696 Grandstaff Run Road
Address: 4206 CAPE CORAL FL Notice is here Pursuant to W operation on State: County:	eby given: /est Virginia Code § 22-6A-16(c), no the surface owner's land for the purpown	otice is hereby given that t pose of drilling a horizonta UTM NAD 8 Public Road	ne undersigned I well on the tra Easting: Northing:	act of land as follows: 531,792,826 4,428,561,696
Address: 4206 CAPE CORAL FL Notice is here Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to Work to be provide horizontal we surface affect information results.	eby given: Vest Virginia Code § 22-6A-16(c), not the surface owner's land for the purpower. WV Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(c), the dots W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a seed by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE,	otice is hereby given that to pose of drilling a horizontal UTM NAD and Denerally us this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are contained from the Secretary of the damages are contained from the Secretary of the post of the secretary	Easting: Northing: Access: A copy of this land will be nt containing an arry, at the WV	act of land as follows: 531,792,826 4,428,561,696 Grandstaff Run Road
Address: 4206 CAPE CORAL FL Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters,	eby given: Vest Virginia Code § 22-6A-16(c), not the surface owner's land for the purpower. Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(c), the deby W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a seed by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, fault.aspx.	otice is hereby given that to pose of drilling a horizontal UTM NAD and Denerally us this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are contained from the Secretary of the damages are contained from the Secretary of the post of the secretary	A copy of this land will be nt containing an arry, at the WV 304-926-0450	act of land as follows: 531,792,826 4,428,561,696 Grandstaff Run Road BW EDGE code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Address: 4206 CAPE CORAL FL Notice is here Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	eby given: Vest Virginia Code § 22-6A-16(c), not the surface owner's land for the purpower. Marshall Sand Hill Wheeling, WV-OH Grandstaff Run of Wheeling Shall Include: Vest Virginia Code § 22-6A-16(c), the deby W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a seed by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, fault.aspx.	otice is hereby given that to pose of drilling a horizontal UTM NAD 8 Public Road Generally us his notice shall include: (1 to a surface owner whose the damages are compensation agreement the damages are compensation the Secret Charleston, WV 25304	Easting: Northing: Access: A copy of this land will be nt containing an arry, at the WV	act of land as follows: 531,792,826 4,428,561,696 Grandstaff Run Road BW EDGE code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-Dr., Suite 201

Oil and Gas Privacy Notice:

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

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

Notice Time Date of Noti	Requirement: ce: 06/24/2024	Notice shall be provided a Date Per	t least TEN (10) days prior to filing a rmit Application Filed:	permit application.
Delivery me	thod pursuant	to West Virginia Code §	22-6A-16(b)	
☐ HAND		CERTIFIED MAIL		
DELIVI		RETURN RECEIPT REC	OUESTED	
receipt reque drilling a hor of this subsec- subsection m	sted or hand del rizontal well: P ction as of the da ay be waived in	ivery, give the surface ow rovided, That notice given ate the notice was provided writing by the surface ow	ner notice of its intent to enter upon the pursuant to subsection (a), section to d to the surface owner: <i>Provided, how</i>	an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements ovever, That the notice requirements of this ude the name, address, telephone number, or's authorized representative.
Notice is he	reby provide	d to the SURFACE OV	VNER(s):	
	Ann & William F. Edge		Name:	
Address: 1116			Address;	
Martins Ferry, O	H 43935			
			uris hereby given that the undersigned orizontal well on the tract of land as for the control of land	well operator has an intent to enter upon sllows: 531,792.826 4,428,561.696 Grandstaff Run Road
Quadrangle:	Wheeling, WV-OH		Generally used farm name:	BW EDGE
Watershed:	Grandstaff Run of	Wheeling		
Pursuant to facsimile nur related to hor	mber and electr rizontal drilling	Code § 22-6A-16(b), this onic mail address of the may be obtained from the	operator and the operator's authorize e Secretary, at the WV Department of	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	reby given by	n		
	T: SWN Production		Authorized Representative:	Reid Croft
Address:	-	pont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite 201
	Morgantown, W	V 26508		Morgantown, WV 26508
Telephone:	304-231-8329		Telephone:	304-231-8329
Email:	reid_croft@swr	1.com	Email:	reid_croft@swn.com
Facsimile:			Facsimile:	

Oil and Gas Privacy Notice:

WW-6A5 (1/12) Operator Well No. BW EDGE MSH 410H

4705102539

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

Pursuant to W. Vareturn receipt required to be provided amages to the sur (d) The notices recof notice. Notice is hereby provided the address lists (Name: Barbara Ann & Address: 1116 Virgini Marlins Ferry, OH 43935) Notice is hereby provided to West (Name: Barbara Ann & Address: 1116 Virgini Marlins Ferry, OH 43935) Notice is hereby provided is hereby prisuant to West (Name: Barbara Ann & Address: 1116 Virgini Marlins Ferry, OH 43935) Notice is hereby prisuant to West (Name: Barbara Ann & Address: Wy (County: Mars (County: M	RECEIPT REQUESTED /a. Code § 22-6A-16(c), no later uested or hand delivery, give the station. The notice required by the ovided by subsection (b), section to zontal well; and (3) A proposed surface affected by oil and gas operate a provided to the SURFACE OW sted in the records of the sheriff at the summary of the summary of the sted in the records of the sheriff at the summary of the sheriff at the summary of the summary	THAND DELIVER' than the date for surface owner whis subsection sharen of this article surface use and rations to the extern to the surface (NER(s)) the time of notice	or filing the hose land of hall include to a surface compensate the dange owner at the dange owner at the compensate owner at the dange owner at t	will be used for e: (1) A copy be owner whose tion agreement mages are comp the address lis	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
RETURN R Pursuant to W. Vareturn receipt required to be provided in the planned operated amages to the sur (d) The notices reconstruction of notice. Notice is hereby provided in the address listed Name: Barbara Ann & Address: 1116 Virgini Marlins Ferry, OH 43935 Notice is hereby provided in the service of notice is hereby provided in the service in the service is hereby provided in the service in the service is hereby provided in the service in the service is hereby provided in the service in the service in the service is hereby provided in the service in the service in the service is hereby provided in the service in the	RECEIPT REQUESTED /a. Code § 22-6A-16(c), no later uested or hand delivery, give the station. The notice required by the ovided by subsection (b), section to zontal well; and (3) A proposed surface affected by oil and gas operate a provided to the SURFACE OW sted in the records of the sheriff at the summary of the summary of the sted in the records of the sheriff at the summary of the sheriff at the summary of the summary	DELIVER's than the date for surface owner white subsection shaden of this article surface use and rations to the extended to the surface VNER(s) the time of notice	or filing the whose land whall include to a surface compensate the dan the owner at ce): Name: Address:	will be used for e: (1) A copy be owner whose tion agreement mages are comp the address lis	or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
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Address: 1116 Virgini Martins Ferry, OH 43935 Notice is hereby government to West Voperation on the solution of the solution	given: Virginia Code § 22-6A-16(c), not surface owner's land for the purpo		Address:		well operator has developed a planned
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Notice is hereby generation on the solution on the solution of the solution of the solution on the solution on the solution of	given: Virginia Code § 22-6A-16(c), not surface owner's land for the purpo		ven that the		well operator has developed a planned
Quadrangle: Whe Watershed: Gran This Notice Shall Pursuant to West	/ rrshall nd Hill	UTM		well on the tra Easting: Northing:	
Watershed: Gran This Notice Shall Pursuant to West	neeling, WV-OH			farm name:	BW EDGE
Pursuant to West	andstaff Run of Wheeling		trung door	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
horizontal well; ar surface affected b information relate	Virginia Code § 22-6A-16(c), this by W. Va. Code § 22-6A-10(b) to and (3) A proposed surface use and by oil and gas operations to the eled to horizontal drilling may be exated at 601 57th Street, SE, C	a surface owner of compensation a extent the damag obtained from the	ner whose agreement ges are con the Secreta	land will be u containing an inpensable und ry, at the WV	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting

Oil and Gas Privacy Notice:



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager **District Four**

Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

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

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

September 5, 2024

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

Subject: DOH Permit for the BW Edge Well Pad, Marshall County BW Edge MSH 410H Well Site

Dear Mr. Martin,

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

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Lacy D. Pratt

Central Office O&G Coordinator

Slacy D. Pratt

Cc: **Brittany Woody**

SWN Production Company, LLC

OM, D-6

File

Product Name	Product Use	Chemical Name	CAS Number
HCL	Solvent	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
STI-CI-02	Corrosion Inhibitor	2-Butoxyethanol	111-76-2
		Ethylene glycol	107-21-1
		N,N-Dimethylformamide	68-12-2
		benzyl chloridequaternized	72480-70-7
		Cinnamaldehyde	104-55-2
		Isopropyl alcohol	67-63-0
		Poly(oxy-1,2-ethanediyl), .alpha(nonylphenyl)omegahydroxy-	9016-45-9
		1-Decanol	112-30-1
		1-Octanol	111-87-5
		Triethyl phosphate	78-40-0
	Iron Control	Sodium Erythorbate	6381-77-7
Ferriplex 80	- M. A. C.		55566-30-8
Folicide 4Frac	Biocide	Tetrakis(Hydroxymethyl) Phosphonium Sulfate	
		Quaternary ammonium compounds	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
Plexslick 930	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Oleic Acid Diethanolamide	93-83-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Ammonium Chloride	12125-02-9
		Sodium Chloride	7647-14-5
Plexaid 655NM	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
Plexald 033/N/VI	Scale minibitor		7732-18-5
		Water	
Plexslick V996	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Sodium Chloride	7647-14-5
Plexaid 655WG	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
		Glycerin	67-56-1
Clearal 270	Biocide	Glutaraldehyde	111-30-8
	210000	Didecyldimethylammonium Chloride	7173-51-5
		Quaternary Ammonium compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
			107-21-1
StimSTREAM SC 398 CW	Scale Inhibitor	Ethylene glycol	
		CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		Water	7732-18-5
StimSTREAM FR 9800	Friction Reducer	Chemstream-Alkane-00001	Chemstream-Alkane-00001
		Chemstream-Polymer-00001	Chemstream-Polymer-00001
		Ethoxylated alcohols (C12-16)	68551-12-2
		Water	7732-18-5
StimSTREAM FR 2800	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
- manual net not away	od inversionance)	Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9
		Water	7732-18-5
CALL CTDE ANA ED 0775	Cristian Radicas	Distillates (petroleum), hydrotreated light	64742-47-8
StimSTREAM FR 9725	Friction Reducer		12125-02-9
		Ammonium Chloride	
		Water	7732-18-5
StimSTREAM SC 398 C	Scale Inhibitor	CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		Water	7732-18-5

OPERATOR: SWN Production Co., LLC	WELL NO: BW Edge MSH 410H
PAD NAME: BW Edge MSH	
REVIEWED BY:	signature: Bittony Woodly
WELL RESTRIC	CTIONS CHECKLIST
HORIZON	TAL 6A WELL
Well Restrictions	* Pad Built 8/1/15
Perennial Stream, Lake, Pond, Rese	
DEP Waiver and Permit Cor	
At Least 300 Feet from Pad and LC Naturally Producing Trout Stream;	OD (including any E&S Control Feature) to any OR
DEP Waiver and Permit Cor	nditions
At Least 1000 Feet from Pad and L Groundwater Intake or Public Water	OD (including any E&S Control Feature) to any er Supply; OR
DEP Waiver and Permit Co	nditions
At Least 250 Feet from an Existing Drilled; OR	Water Well or Developed Spring to Well Being
Surface Owner Waiver and	Recorded with County Clerk, OR
DEP Variance and Permit C	Conditions
At Least 625 Feet from an Occupie	ed Dwelling Structure to Center of the Pad; OR
Surface Owner Waiver and	Recorded with County Clerk, OR
DEP Variance and Permit C	Conditions
At Least 625 Feet from Agricultura of the Pad; OR	al Buildings Larger than 2500 Square Feet to the Center
Surface Owner Waiver and	Recorded with County Clerk, OR
DEP Variance and Permit O	Conditions