

west virginia department of environmental protection

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

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

Monday, June 22, 2020 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for BRIAN TESLOVICH BRK 3 47-009-00311-00-00

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

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

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

James A. Martin Chief

Operator's Well Number: BRIAN TESLOVICH BRK 3
Farm Name: BRIAN L. TESLOVICH

U.S. WELL NUMBER: 47-009-00311-00-00

Horizontal 6A New Drill Date Issued: 6/22/2020

API Number: 47-009-0031/

PERMIT CONDITIONS

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

CONDITIONS

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

API Number: 47-609-00311

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15) API NO. 47- 009 OPERATOR WELL NO. Brian Testovich BRK 3H
Well Pad Name: Brian Testovich BRK

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

0.17.11.0	SWN Pr	roduction Co	LIC	494512924	009- Brooke	3-Buffalo 641-Tiltonsvil	lle
Well Operat	tor: Owner	oddollon oc	J., LLO	Operator ID	County	District Quadrangle	
?) Operator's \	Well Number:	Brian Teslo	vich BR	RK 3H Well Pa			_
3) Farm Name	/Surface Own	er: Brian L.	Teslovio	ch Public Ro	ad Access: Mo	Cord Hill Road	
1) Elevation, c	urrent ground	: 1149'	El	evation, proposed	post-construct	ion: 1151'	
5) Well Type		(Oil _	Unc	lerground Stora	ge	
	Other						
	(b)If Gas	Shallow	Х	Deep	-		
		Horizontal	X		1	100	
6) Existing Page					_ ()	X 4 3 20	
7) Proposed Ta	arget Formatio	on(s), Depth(s), Antic	ipated Thickness	and Expected F	Pressure(s): I Thickness- 51', Associated Pressure- 3	3766
1	-	0.75 2.5	-/	10 0110110110			
8) Proposed To						RECEIVED	
9) Formation a	it Total Vertic	di Boptii.	larcellus	7		Office of Oil and Ga	3
10) Proposed	Total Measure	d Depth: 1	8907'			MAY 2 0 2020	
11) Proposed I	Horizontal Leg	g Length: 1	2594.12	2' /		WV Department of Environmental Protecti	00
12) Approxim	ate Fresh Wat	er Strata Dep	oths:	115'		Environmental Protecti	
13) Method to	Determine Fr	esh Water D	epths:	Nearby spring			
14) Approxim				ty Profile			
15) Approxim			/				
				ine, karst, other):	Possible Voic	1 266' —	
17) Does Prop directly overly				ms Yes	N	o <u>x</u>	
(a) If Yes, pr	rovide Mine Ir	nfo: Name:	V	Nindsor 1	Mine	Windsor Coal C	enso
		Depth:		266			
		Seam:					
		Owner	0	onsol			

WW-6B (04/15) 470090311

OPERATOR WELL NO. Brian Teslovich BRK 3H
Well Pad Name: Brian Teslovich BRK

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (1b/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	320'	320'	323 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1609'	1609'	632 sx/CTS
Production	5 1/2"	New	HCP-110	20#	18907	18907'	lead 778xx/Tail 3081xx/ 100' Inside Intern
Tubing							
Liners							

C-MO 4.3.20

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/50% Excess
Tubing							
Liners							

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PACKERS

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Kind:	WV Department of Environmental Protection
Sizes:	
Depths Set:	

WW-6B (10/14)

API NO. 47- 009
OPERATOR WELL NO. Brian Teslovich BRK 3H
Well Pad Name: Brian Teslovich BRK

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

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production unites, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 11.42
- 22) Area to be disturbed for well pad only, less access road (acres): 6.17
- 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:

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See Attachment ***

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WV Department of Environmental Protection

25) Proposed borehole conditioning procedures:

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

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

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

Proposed Drilling Program Southwestern Energy Company Well: **BRIAN TESLOVICH BRK 3** Re-entry Rig: TBD Prospect: **PANHANDLE** Field: PANHANDLE FIELD WET BROOKE State: County: 40.2167 Latitude -80.6334 Longitude SHL: BHL: 40.2487 Latitude -80.6487 Longitude **KB Elev:** 1,175 ft MSL KB: 26 ft AGL GL Elev: 1,149 ft MSL 0' to 100' Coal Void at 266' TVD 0' to 340' Air / Mist PROD TOC Lead @ 1,629 'MD PROD TOC Tail @ 5,100 ' MD 340 'to 1,629 ' Air / Mist **TUBULAR DETAIL** Size (in) Weight Grade From To 1,629 ' to 5,031 ' Conductor/Coal: 20 94.0# H-40 0 100 Air / Mist Surf./Coal: 13.375 48.0# H-40 0' 320 Intermediate: 9.625 36.0# J-55 0' 1,609 Production: 5.5 HCP-110 0' 18,907 20.0# **CEMENT DETAIL** Sacks Class Density 151 Conductor A 19.3 Surface 323 15.6 Intermediate 632 A 15.6 **Production Lead** 776 A 15.6 **Production Tail** 3061 15.6 Air TD at 5,031 ' KOP at 5,031 'MD Freshwater Depth - 115 'TVD 5,031 'to 6,312 ' 12.4 - 12.8 ppg Coal Void Depth - 266 'TVD Saltwater Depth - 405 'TVD TVD - 5,778 ' TMD - 18,907 ' RECEIVED Office of Oil and Gas MAY 2 0 2020 TD at 18,907 'MD WV Department of Environmental Protection 5,634 'TVD 5,778 ' Target Center EOB at 5,778 'TVD 6,312 'to 18,907 ' SHL Onondaga 5,794 'TVD 12.4 - 12.8 ppg Created by: C R Hall on 03/24/2020

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3 1 1			Area of Review	Review			
	Teslovich BRK 3H AOR						
O API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
4709300053	Berea Oil and Gas Corporation	N/A	39.028047	-79.442466	N/A	N/A	N/A
4709300054	Berea Oil and Gas Corporation	N/A	39.023619	-79.443045	8473	Oriskany	N/A
4709300057	Hydrocarbon Exploration, Inc.	N/A	N/A	N/A	N/A	N/A	N/A
4709300047	Berea Oil and Gas Corporation	N/A	N/A	N/A	N/A	N/A	N/A
4709300045	Columbia Gas Transmission Corporation	Completed	N/A	N/A	N/A	N/A	N/A
4700900015	Dr. Michael J. Miller, Jr., dba Joint Venture Company	Plugged	40.218317	-80.628013	1890	Berea	N/A
4709700151	Cumberland & Allegheny Gas Company	Completed	38.860133	-80.253003	2130	Fifth	N/A
4709300013	Columbia Carbon Company	Plugged	39.171751	-79.634098	6385	Tuscarora	N/A
4700900057	Jesse P. West	Completed	40.230351	-80.634257	N/A	N/A	N/A
4709700244	Cameron Producing	Plugged	38.916956	-80.234682	4540	Brallier	N/A
4709300064	Berea Oil and Gas Corporation	Plugged	39.089138	-79.454338	9700	Oriskany	N/A
47002000£3	Cities Service Oil & Gas Corporation	Plugged	39.220207	-79.609345	9594	Tuscarora	N/A

WW-9 (4/16)

API Number	47 -	009	ė.
0	and a silve	117-1	NIN DE TENERNIE

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) Grog Run	Quadrangle Tiltonsville
Do you anticipate using more than 5,000 bbls of water to comple	ete the proposed well work? Yes V No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application Underground Injection (UIC Permit	Number Various Approved Facilities Office of Oil and Gas)
Reuse (at API Number_At the next anticp	101741 7 11 711711
Off Site Disposal (Supply form WW Other (Explain recovery and solidification)	-9 for disposal location)
Will closed loop system be used? If so, describe: Yes- See Atta	chment 3A
Drilling medium anticipated for this well (vertical and horizonta	l)? Air, freshwater, oil based, etc. Air drill to KOP, Build drill with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum, etc. Syr	athetic Oil Base
Additives to be used in drilling medium? Attachment 3B	
Drill cuttings disposal method? Leave in pit, landfill, removed of	offsite, etc. landfill
-If left in pit and plan to solidify what medium will be u	ised? (cement, lime, sawdust)
-Landfill or offsite name/permit number? Meadowfill SWF-Apex Sanitary Landfill Ub-U8438, Brooke Co SW	1032, Short Creek SWF-1034,Carbon Limestone MSWL018781, Wetzel County 1021
Permittee shall provide written notice to the Office of Oil and Go West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	as of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West Virgorovisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, based	JESSICA L. VANGILDER
Company Official Signature Duttully 10000	State of West Virginia My Comm. Expires Jul 20, 2020
Company Official (Typed Name) Brittany Woody	SWN Production Company, LLC 179 Innovation Dr. Jane Lew, WV 26378
Company Official Title Senior Regulatory Analyst	2000000000
Subscribed and sworn before me this 3rd day of	april , 20 20
Jessica J. Van Gilder	Notary Public
My commission expires 7-20-20	

Proposed Revegetation Treatment: Acres Disturbed 11.42 Prevegetation Lime as determined by pH test min.2 Tons/acre or to correct to pH 6.17 Fertilizer type 10-20-20 Fertilizer amount 600/500 Ibs/acre Mulch Hay/Straw Tons/acre Seed Mixtures Temporary Personal Seed Type Ibs/acre Seed Type Seed Type Seed Type Attachment 3C Construction Plan	manent lbs/acre
Fertilizer type 10-20-20 Fertilizer amount 600/500 lbs/acre Mulch Hay/Straw Tons/acre Seed Mixtures Temporary Per	
Fertilizer amount 600/500 lbs/acre Mulch Hay/Straw Tons/acre Seed Mixtures Temporary Perting Seed Type	
Mulch Hay/Straw Tons/acre Seed Mixtures Temporary Per	
Seed Mixtures Temporary Per Seed Type Seed Type	
Temporary Per	
Seed Type Seed Type	
Seed Type Ibs/acre Seed Type Attachment 3C Construction Plan	lbs/acre
Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans incorovided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, acreage, of the land application area.	cluding this info have been and dimensions (L x W), and
Photocopied section of involved 7.5' topographic sheet.	RECEIVED Office of Oil and Ga
Plan Approved by: 4.3.20	MAY 2 0 2020
Comments:	WV Department of Environmental Protection



WVD Seeding Specification

Attachment 3C

To Order See	To Order Seed contact Lyndsi Eddy Flippo office 570-996-4271 cell 501-269-5451 lyndsi_eddy@swn.com	59-5451 lyndsi_eddy@swn.com (please allow 7 to 10 days for delivery)	lays for delivery)
NON-ORGANIC PROPERTIES		ORGANIC PROPERTIES	
Seed Mixture: ROW Mix	SWN Supplied	Seed Mixture: SWN Production Organic Mix	WS
Orchardgrass	40%	Organic Timothy	Ga of ection
Timothy	15%	Organic Red or White Clover	50% /ED and 202
Annual Ryegrass	15%	OR	Oil o
Brown Top Millet	5%	Organic Perennial Ryegrass	50%
Red Top	5%	Organic Red or White Clover	50%
Medium Red Clover	5% All legumes are	Analy & Topilly and and	Of N
White Clover	5% innoculated at 5x normal	April 16th- Oct 14th	Apply @ zoolds per affe
Birdsfoot Trefoil	5% rate		1
Rough Bluegrass	5%	Organic Fertilizer @ 200lbs per Acre	Pelletized Lime @ 2 Tons per Acre
Apply @ 100lbs per acre	Apply @ 200lbs per acre Oct. 15th- April 15th PLUS		
April 16th- Oct. 14th	50lbs per acre of Winter Wheat	WETLANDS (delineated as jurisdictional wetlands)	ional wetlands)
SOIL AMENDMENTS		Seed Mixture: Wetland Mix	SWN Supplied
10-20-20 Fertilizer	*Apply @ 500lbs per Acre	VA Wild Ryegrass	20%
Pelletized Lime	Apply @ 2 Tons per Acre	Annual Ryegrass	20%
	*unless otherwise dictated by soil test results	Fowl Bluegrass	20%
Seeding Calculation Information:		Cosmos 'Sensation'	10%
1452' of 30' ROW/LOD is One Acre		Redtop	5%
		Golden Tickseed	5%
622' of 70' ROW/LOD is One Acre		Maryland Senna	5%
		Showy Tickseed	5%
Synopsis:		Fox Sedge	2.5%
Every 622 linear feet in a 70' ROW/LOD,	Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb	Soft Rush	2.5%
bags of fertilizer and (80) 50lb bags of Lir	bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter	Woolgrass	2.5%
Wheat/ac).		Swamp Verbena	2.5%
Special Considerations:		Apply @ 25lbs per acre	Apply @ 50lbs per acre
Landowner Special Considerations including	Landowner Special Considerations including CREP program participants require additional	April 16th- Oct. 14th	Oct. 15th- April 15th
beginning of the project to allow time for special seed delivery.	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.	NO FERTILIZER OR LIME	NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

Attachment 3A

CLOSED LOOP SYSTEM

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

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

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

AIR DRILLING INTERVALS

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

LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

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

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Attachment 3B

Drilling Mediums

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

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present):

Air

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

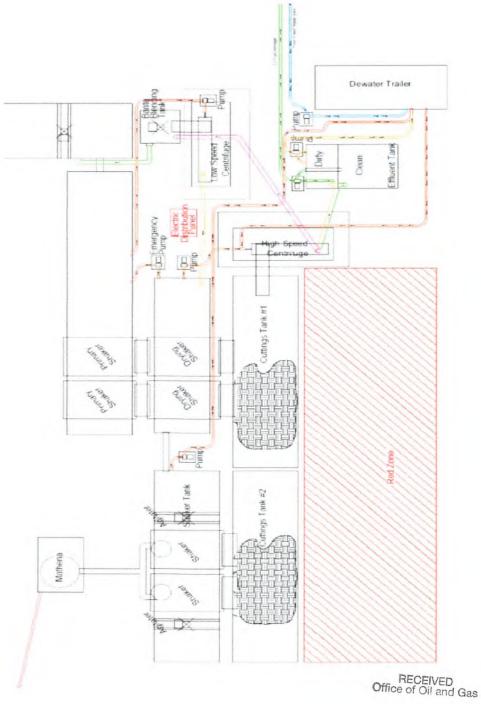
Gilsonite

Calcium Carbonate

Friction Reducers

EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM

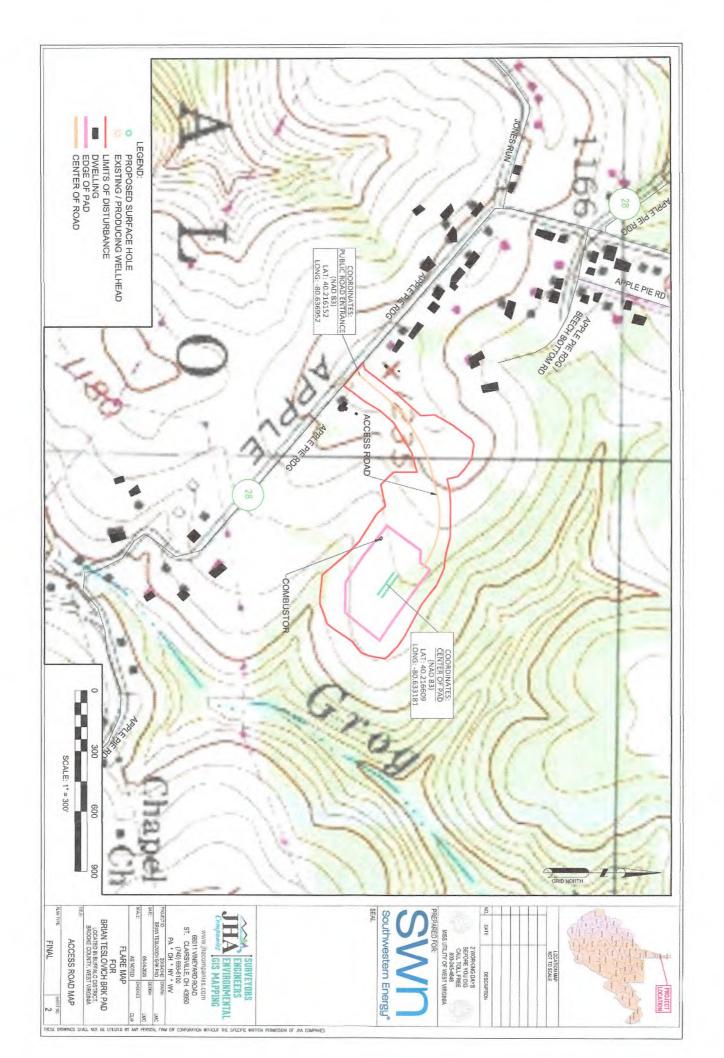


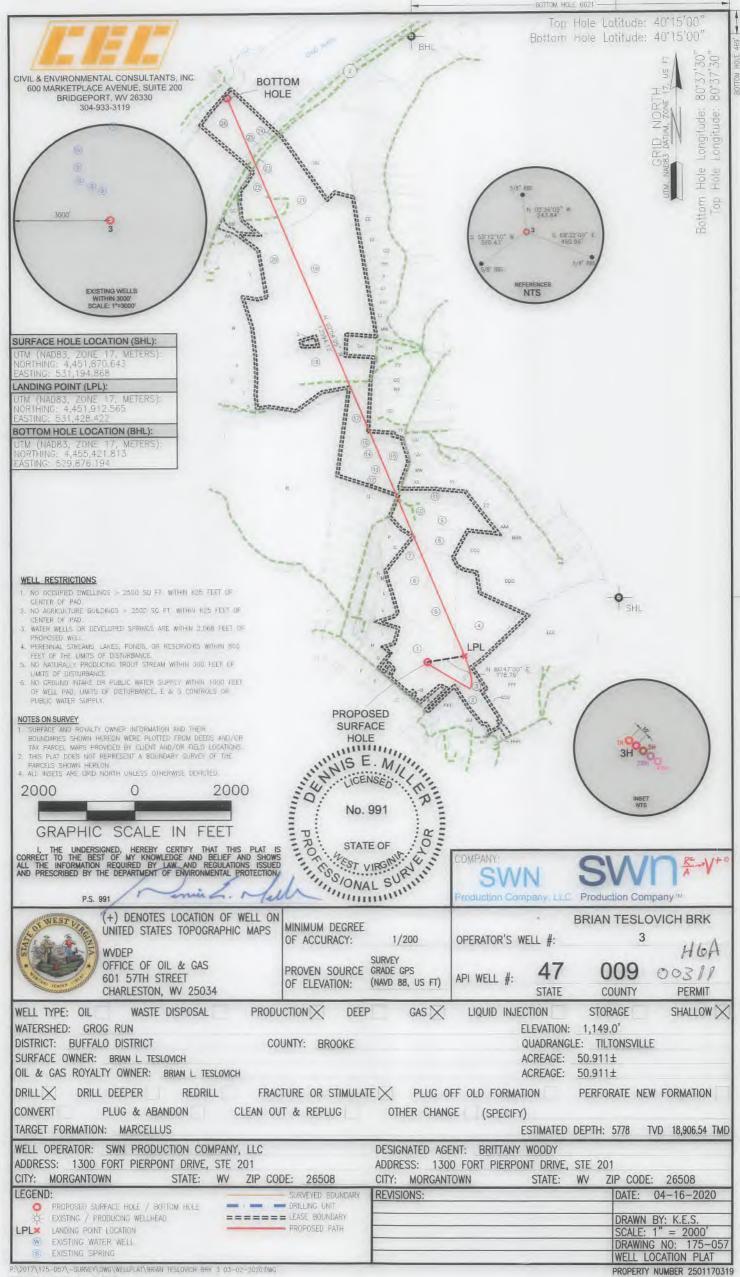


Solids Control Layout

MAY 2 0 2020

WV Department of Environmental Protection





-SURFACE HOLE 2342'



CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 600 MARKETPLACE AVENUE, SUITE 200 BRIDGEPORT, WV 26330 304-933-3119

TRACT	WELL BORE TABLE FOR SURFACE / ROYALTY (SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
	BRIAN L TESLOVICH/SWN PRODUCTION COMPANY, LLC		50.91
2	RICKEY E FIBER	03-B36-132	8.46
3	DONNELLY LORIE T. & HOIT MICHAEL S. (SURV)	03-836-130	5.75
4	JOHN A. CATULLO	03-B36-157	39.50
5	LEMASTERS HARLEY J. & REBECCA K.	03-B36-158	23,70
6	FEMASTERS HARLEY J. & REBECCA K	03-B36-159	13.00
7	WRIGHT MARKUS K. & PEGGY J.	03-B36-160	7.30
8	MCCONKEY TIMOTHY T. & CATHERINE (SURV)	03-B36-154	9.00
9	MCCONKEY TIMOTHY T. & CATHERINE (SURV)	03-B36-153	18.38
10	JUSTIN & DAYNA HEHR	03-B36-152	10.50
11	JUSTIN HEHR	03-836-151	10.55
12	LEONARD BRANNON P. & EMILY M. (SURV)	03-836-171	7.50
13	LEONARD BRANNON P. & EMILY M. (SURV)	03-B36-172	7.80
1.4	LEONARD PAUL D & KIMBERLY D. (SURV)	03-B36-173	6.15
15	HOFFMAN JOHN R; BUCHANAN ALICE J.	03-B36-174	2,60
16	HOFFMAN JOHN R; BUCHANAN ALICE J.	03-B36-175	6.10
17	FODOR STEPHEN A.; BROWNLEE JUDY L.	03-836-176	17.65
18	LOMBARD BERNARD J. III	03-831-81	86.31
19	LOMBARD BERNARD J. III	03-B31-82	100.5
20	SCHIAPPA AND COMPANY INC	03-BB31-65	24.60
21	THOMPSON ET AL & A& G THOMPSON GROUP LLC	03-B31-8	45.25
22	ALLEN CHARLES WESLEY	03-B31-7	6.75
23	BROOKE CO. RT. 2	T 2007 11	-
24	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	3-B27-11	100000
25	TOUPS FAMILY TRUST OF 2013 MATTHEW & ELIZ PADDEN-CO-TRUS	3-B31-14	10.15

	ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	COULTER LYNN; DAVID ET AL	03-B36-143	1.28
B	COLUMBIA GAS COMPANY	03-B36-144	0.048
C	WINDSOR POWER HOUSE COAL COMAPNY	03-B36-104	87.28
D	TAMMY S. MASSEY	03-B36L-39	0.5
E	LOUGHRIE FLOYD R. & DORIS M.	03-B36L-38	2.80
F	KEITH HAMILTON	03-B36L-37	5.10
G	STILLION DANNY L. & THERESA E.	03-B36L-40	2.00
H	BRIAN TESLOVICH	03-B36L-69	50.911
1	CONLEY CHARLES & LINDA LOU	03-B36L-56	5.209
J	BEECH CREST IMPROVEMENT	03-B36L-58	0.52
K	LEMASTERS LARRY W. & LINDA J.	03-B36L-59	2.31
10	GORDER MARK; JOHN; ET AL	03-B36G-21	4.04
M	STEPHENS BARBARA JEAN	03-B36G-19	0.38
	The state of the s	03-B36G-18	0.85
N	STEPHENS BARBARA JEAN	03-B36-161	4.65
0	THOMAS & JENNIFER VIAU	03-B36-162	3.21
F	DEBORAH GRAHAM	03-B36-170	
Q	LEMASTERS HARLEY J.		10.00
R	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	03-BB36-23	390.743
3	GARY BUCKY JEFFEY BUCKY TWOTHY BUCKY KETH DOBD, LYNN DODD, CAROLL LANDMETER, HENRY WELLS JR., REJECCA WELLS ROCKA	03 831-74	1.72
1	BAKER OTIS M. JR & EDNA JO	03-BB31-19	12.21
U	PELL ALBERT T. & SHELIA (SURV)	03-BB31-25	3.92
V	NIELSEN CARL F & MARGARET (SURV)	03-B31-58	8.00
W	LOMBARD BERNARD J. III	01-BB31-58	
X	KOKOSINSKI JOHN T.; JASON JARRETT (SURV)	01-BB31-64	12.44
Y	KOKOSINSKI JASON EDWARD	01-BB31-64.1	5.00
Z	ROBINSON PATRICIA GRAYSON	03-B31-83	1.00
AA	GIBSON JENNIFER A.	01-BB31-63	0.52
BB	ALLEN WESLEY & BERNICE	01-BB31-66	1.59
CC	ONONDAGA HOLDING COMPANY LLC	01-BB31-67	3.33
DD	WALNOHA RAY	01-B31-6	26.00
EE	WEEKLY MARION: GROVES NANCY	03-B31-130	6.08
FE	GRIMM JAMES W.	03-B31-129	4.71
GG	GRIMM JAMES W. & ROBIN LYNN (SURV)	03-B31-128	4.40
HH	GRIMM JAMES W.	03-B31-127	4.95
11	LEMASTERS HARLEY J.	03-B31-126	3.50
JJ	STEWARD DEBBIE	03-B31-125	3.09
		03-B31-124	3.44
KK	LEMASTERS HARLEY J.	03-B31-123	
LL	LEMASTERS HARLEY J. & REBECCA K. (SURV)		2.00
MM	COOPER KYLE T. & KATLIN R.	03-B31-122	
NN	WOOLWINE TIMOTHY A. & MELINA BETH	03-831-80.1	1.00
00	CROSS REBECCA RUTH	03 B31 81.1	5.00
PP	WOOLWINE TIMOTHY A. & MELINA BETH	03-B31-80	18.42
00	WALNOHA MICHAEL S.	03-B31-79	2.77
RR	WALNOHA MICHAEL S.	03-B31-78	5,15
SS	MATHESS JOSHUA	03-B31-77	12.76
TT	WILSON DAVID CURTIS & HAZEL (SURV)	03-B36-15	0.97
UU	LEMASTERS HARLEY J.	03-B36-147	4.00
W	LEMASTERS HARLEY J.	03-B36-148	3.60
WW	LEMASTERS HARLEY J. & REBECCA K. (SURV)	03-B36-149	2.70
XX	LEMASTERS HARLEY J. & REBECCA K. (SURV)	03-B36-150	3.06
YY	NORTHERN PANHANDLE BOWMEN CLUB	03-B36-70	11.47
ZZ	ELLIOTT HAROLD EARL	03-B36-57	10.48
AAA	MILLER JOSEPH R.	03-B36-48	2.65
BBB	WALNOHA CAROL	03-B36-47	7.26
CCC	MCCONKEY TIMOTHY T. & CATHERINE (SURV)	03-B36-155	11.90
DDD	CIUMMO TARQUINIO; EMMA M; ANTONIO (SURV)	03-B36-156	
			33.53
EEE	LOUGHERY VICKIE C. & SHEENA R.	03-837-41	41.00
FFF	MILLER LOUIS	03-B36-125	29.47
GGG	IZSO DAVID LEE; ELIZABETH JANE	03-B36-129	3.00
HHH	KELLY COLIN P, II; TAYLOR NANCY E. (SURV)	03-B36-127	1.00
1(1)	FIBER MERRY M.	03-B36-133	0,43
	ANDEDGON PEDONE & CATIN	03-B36-134	4.37
KKK	ANDERSON JEROME & CATHY ADAMS MARK A. & MELODY J.	03-B36-134	6.21

API WELL #:

47 STATE 009

OOSII HOA

WELL #:

DISTRICT: BUFFALO DISTRICT

RMIT COMPANY:

REVISIONS:

SWN

SWI A Production Company TA

Production Company, LL
OPERATOR'S BRIAN TESI

COUNTY: BROOKE

BRIAN TESLOVICH BRK

STATE:

DF

DRAWN BY: K.E.S. SCALE: N/A DRAWING NO: 175-057 WELL LOCATION PLAT 2

DATE: 04-16-2020

P:\2017\175-057\-SURVEY\DWG\WELLPLAT\BRIAN TESLOVICH BRK 3 03-02-2020.DWG
THURSDAY APRIL 16 2020 08:18PM

Operator's Well No. Brian Teslovich BRK 3H

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"				

RECEIVED.

MAY 20 2020

Office of Oil and Gas

WV Department of Environmental Protection

*Co-tenancy utilization - At least 7 mineral owners in tract and at least 75% of those owners are leased

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 Com	pany,	LLC		
By:	~				
Its:	Staff Landman		1	117	

SWN Production Company, LLC	%0							%0	%0		1.10%																																
	24/216	47/527	47/774	47/787	48/1	48/200	49/20	16/422	18/599	30/480	27.50	38/723		39/443	39/455	39/467	39/473	39/479	27555	39/793	40/7	40/177	40/641	41/202	41/684	41/690	41/696	41/770	41/782	41/788	42/19	42/43	42/67	42/73	46/176	46/182	46/296	46/483	46/495	46/774	47/30	47/48	47/607
	17%	16,0%	16.0%	16.0%	16.0%	16.0%	16.0%	18.0%	18 0%		70000	14.00%		16,00%	16.00%	18.00%	18.00%	18,00%	8.500.00	14,00%	18,00%	14 00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	18.00%	18.00%	18.00%	14.00%	14.00%	14.00%	18.00%	18,00%	18.00%	18.00%
	Chesapeake Appalachia, LLC SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	Chesapeake Appalachia, LLC	Chesaneake Annalachia 11C	SWN Production Company, LLC	6 1000	SWN Production Company, LLC		SWN Production Company, LLC	SWIN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	Oll Incommon action band MAN	SWN Production Company, ELC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC.	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC			
	Mountainer Natural Gas Company	Martha E. Wakefield	Janet L. Debar, a/k/a Janet Agnew Debar	Mark Leavitt, single	Jean E. Leavitt, single	Thomas Leavitt, single	Alan Westelin and Sally A. Westelin, husband and wife	Rickey E. Fiber and Merry M. Fiber, his wife	Lawrence J Gribben and Joan M. Gribben, his wife and Lawrence K. Gribben, a single man		Royalty Owners	Anna Way willer, a wroow dealing feterin with her separate property.	married woman, delaing hereing with her sperate property	Marilyn Miller, a widow	Joseph B. N. Miller III o married man dealing herein with his contrate property.		Joyce H. Tomalin, represented herein by Attorney-in-Fact	Beverly Miller, a widow	Donato A. Arexander, at Interfect mail, Jobaning Interfect with This Separate property, Notine L. Mesahoda, a married man, dealing herein with this separate property, Linda S. Greathouse, a married woman, dealing herein with her special property, Linda S. Greathouse, a married woman, dealing herein with her special property, Wanda Bernet, a property, Charlene LeMastes, a marriad woman, dealing herein with her seperate property, Wanda Bernet, a widow, dealing herein with her seperate property, Reverty Cillion-Lowe, a married woman, delaing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property.	Marione Cook DeShazer, a widow	Robert L. Miller, Jr., married, dealing herein with his separate property, represented herein by Attorney-in-	Fact, Susanne M. Ross	Denis Siron, married, dealing netein with his separate property Daniel Branch a married man idealing barain withhis constate property	Bobbete McComick, married, dealing herein with her separate property	Nancy Stratford, ffWa Nancy Miller, widow, represented herein by Margaret Miller as Power of Attorney	Peter Brade, married, dealing herein with his separate property	Ray E. Lane, married, dealing herein with his separate property	George Diehl II, married, dealing herein with his separate property	James Branch, single	James Diehl, single	Same winel, single Karen Binswanger, married dealing herein with her segarate property	Laurence B. Lane, married, dealing herein with his separate property	Margaret Miller, single	Marjorie Miller Winhoven, married, dealing herein withher separate property	End Price, married, dealing herein with his separate property Frederick Anton Schneider widow	Christine Herriott, fikla Christine George, married, dealing herein with her separate property					Lawrence S. George II, alk/a Stephen George, married herein with his separate appoint		
	3-836-145							3-836-132	3.836.130	0	3-836-157																																
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					14.00%	14.00%	18.00% 18.00% 18.00%	18.00%	14.00%	14.00%	18.00% 18.00%
SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	SWN Production Company, LLC SWN Production Company, LLC	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	SWN Production Company, LLC SWN Production Company, LLC	SWN Production Company, LLC SWN Production Company, LLC	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	Production Company,	SWN Production Company, LLC SWN Production Company, LLC	SWN Production Company, LLC SWN Production Company, LLC	SWN Production Company, LLC SWN Production Company, LLC
David Drummond, shudower, usaming tenent with the separate property David Drummond, shudower, usaming tenent with the separate property Jessita Maire Jensen, fifd a Jessica Givens, married, dealing herein with her separate property Jessita Maire Jensen, fifd a Jessica Givens, married, dealing herein with her separate property Jonathon Montgomery, single Sherri Lym Hugic, a divorced woman Arthur D. Stoner aka Art Dwight Stoner, a divorced man Donald Geer and Dolorse Ann Geer ake Dee Geer, husband and wife Parmels Sue Amadril, a divorced woman Scott G. Duncan and Heather S. Duncan, husband and wife Mark Bryan Duncan and Cynthia Elizabeth Duncan, husband and wife Andres Glassow and Afaren S. Glassow, husband and wife San Timothy Duncan and Cynthia Elizabeth Duncan, william H. M. Ryan SWN Production Company, LLC (Company William H. M. Ryan SWN Production Company, LLC (Company William S Anna May Miller, a widow dealing herein with her separate property James E. Williams, a married man dealing herein with his separate property James E. Williams, a married man dealing herein with his separate property Anna May Miller, a widow Joseph R. N. Miller III. a married man, dealing herein with his separate property Robert W. Daly, Jr., a single man expressented herein by Attomey-in-Fact Bevery Miller, a widow Joseph R. N. Miller III. amarried man expressented herein by Attomey-in-Fact Bevery Miller, a widow Joseph R. N. Jr., as incline man, dealing herein with his separate property, Charlere LeMasties, a married woman, dealing herein with her separate property, Linds S. Greathouse, a married woman, dealing herein with her separate property, and widow, dealing herein with her separate property, Normal Selamin Annaly herein with her separate property, Normal Selamin Herein property, Normal Selamin Willer, a widow a married woman, dealing herein with a married woman, dealing herein with selamin when we herein property, Normal Selamin with herein property, Normal Selamin herein property, Normal Selamin herein property, Normal Sela		Robert L. Miller, Jr., married, dealing herein with his separate property, represented herein by Attomey-in- Fact, Susanne M. Ross Dennis Stroh, married, dealing herein with his separate property Daniel Banch, a married man, dealing herein withhis separate property	Bobbete McConflick, inaffled, beaning felent with the separate property. Nancy Stratford, (fi/a Nancy Miller, widow, represented herein by Margaret Miller as Power of Attorney. Peter Brade married dealing herein with his senarate monerty.	reter Drade, martied, dealing herein with fits separate property Ray E. Lane, married, dealing herein with his separate property George Diehl II, married, dealing herein with his separate property James Branch, single	James Diehl, single Janice Miller, single	Karen Binswanger, married, dealing herein with her separate property Laurence B. Lane married, dealing herein with his separate property	Margaret Miller, Single Margior Miller Vinhoven, married, dealing herein withher separate pagenty Entre Price married, dealing herein with his canonals monate.	Frederick Anton Scholage, widow	Chinstine Hemoti, tika Chinstine George, mamed, dealing hereinwig ner separate property. Susan Sprouse, tika Susan Givens, married, dealing herein witten esparate property.	Sherrel Novinger, ff/Va Sherrel Plerson, single	Arjanta Scott, filvia Arjanta George, married, dealign herein with degreepare property Discours, married, dealing herein with her separate property O

	. 1.10%		
47148 477607 39/461 50/721 50/733 50/742 50/742 48/700 48/770	49/11 49/141 49/246 49/330 57/1466 386/387 53/368 37/112 38/723 39/443 39/443 39/443 39/443	39/543 39/543 40/7 40/177 40/641 41/202 41/684	41/690 41/696 41/770 41/782 41/794 42/19 42/19 42/67 42/67 42/73 46/786 46/182 46/296 46/483
18.00% 18.00% 14.00% 14.00% 16.00% 16.00%	16.00% 16.00% 16.00% 16.00% 18.00% 14.00% 16.00% 16.00%	18.00% 14.00% 14.00% 14.00% 14.00%	14.00% 14.00% 14.00% 14.00% 14.00% 14.00% 18.00% 18.00% 14.00% 14.00%
SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC
Bonnie Walter Benjamin Price, single Ermest N. Parlner, a widower, dealing herein with his separate property David Drummond, single Diane Carol Glovers, married, dealing herein with her separate property Jessica Marie Jensen, #fl/ka Jessica Givens, married, dealing herein with her separate property Jonathon Montgomery, single Sherri Lynn Hugic, a divorced woman Arthur D. Sloner ask a Art Dwight Stoner, a divorced man Donald Geer and Dolores Ann Geer aka Dee Geer, husband and wife	Pamela Sue Amadril, a divorced woman Scott G. Durcan and Heather S. Durcan, husband and wife Mark Bryan Durcan and Cynthia Eizabeth Durcan, husband and wife Andres Glassow and Karen S. Glassow, husband and wife Sean Timrothy Durcan, a divorced man William H. M. Ryan SWN Production Company, LLC (Company owned minerals) Jerome Williams SWN Production Company, LLC (Company owned minerals) Anna May Miller, a widow dealing herein with her separate property Jannes E. Williams, a married man dealing herein with his separate property Marriyh Miller, a widow Joanne L. Turner, widow Joanne L. Turner, widow Joseph R. N. Miller III, a married man represented herein with his sperate property Robert W. N. Miller III, a married man represented herein by Citiford E. Good, as Power of Attomey	Beverly Miller, a widow Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a manried man, dealing herein with his separate property, August Robert Alexander, a manried man, dealing herein with his separate property, Linda S. Greathouse, a married woman, dealing herein with her seperate property, Linda S. Greathouse, a married woman, dealing herein with her seperate property, Beverty Cliffort-Lows, a married woman, dealing herein with her seperate property, Droughy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property, Drouthy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property. Marjorie Cook DeShazer, a widow Robert L. Miller, Jr., married, dealing herein with his separate property, represented herein by Attomey-in- Fact, Susanne M. Ross Dennis Stroh, married, dealing herein with his separate property Dennis Stroh, married, dealing herein with her separate property Daniel Branch, a married dealing herein with her separate property Daniel Branch, a married, dealing herein with her separate property Nancy Stratford, fik/a Nancy Miller, widow, represented herein by Margaret Miller as Power of Attomey Nancy Stratford, fik/a Nancy Miller, widow, represented herein by Margaret Miller as Power of Attomey	Peter Brade, married, dealing herein with his separate property George Dielell, married, dealing herein with his separate property George Dielell, married, dealing herein with his separate property James Branch, single James Branch, single James Dielel, single

46/768 46/774 47/30	47/48	47/607	39/461	50//21	50/754	50/742	48/706	48/770	48/778	49/1	49/141	49/248	49/300	49/438	57/466	386/387	53/368	27/113	38/723		39/443	39/448	39/455	39/46/	39/4/3	38/4/8	39/543	39/793	40/7	40/477	40/641	41/202	41/684	41/690	41/696	41/770	41/782	41/794	42/19	42/43	42/67	42/73	46/786	46/176	46/182
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Brooke County, West Virginia	with his separate property		Constitute Hernord, Invia Constitute George, married, dealing nerein with ner separate property	dealing lierent with the Separate poliperty		anta George, married, dealign herein with her separate property		th his separate property			wer, dealing herein with his separate property			Jessica Marie Jensen, Ilva Jessica Givens, marred, dealing nerem with her separate property lineathon Montromen, single	woman	r a divorced man	and and wife		Scott G. Duncan and Heather S. Duncan, husband and wife	nd and wife	, husband and wife	an, a divorced man		SWN Production Company, LLC	(Company owned minerals) Jerome Williams		, a widow dealing herein with her separate property	ein with his separate property, and Lois A. Williams, a	g hereing with her sperate property	Inama Times widow	married man dealing herein with his sperate property	ower of Attorney				Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing herein with his eperate property, August Robert Alexander, a married man, dealing herein with his separate property, Linda & Greathouse, a married woman, dealing herein with her sperate property, Charlene LeMastes, a married woman, dealing herein with her seperate property, Charlene LeMastes, a married woman, dealing herein with her seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Beverty Cilfon-Lowe, a married woman, delaing herein with her seperate property, Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property.	Marjorie Cook DeShazer, a widow	Robert L. Miller, Jr., married, dealing herein with his separate property, represented herein by Attorney-in-			with her separate property	ret Miller as Power of Attomey	Peter Brade, married, dealing herein with his separate property		ed, dealing herein with his separate property	o.		Janice Miller, single Karen Binswanner married dealing herein with her senarate nonnerty	
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Margaret Miller, single	Marjorie Miller Winhoven, married, dealing herein withher separate property	Eric Price, married, dealing herein with his separate property	Frederick Anton Schneider, widow	Consule Herriou, I/Na Consule George, married, dealing nerein with ner separate property Suesta Section (IVA Suesta Circust married Joseffer basein with bar separate paraget.	Susait Spiouse, IMS Susait Sivers, itiatreu, desiriig hereni witt her sepatate polpety Sharral Mouinnar fil/s Sharral Diarson, sindla	Oliene Novinger, into Oliener rietson, single	Datient resour, single Arients Scott files Arients George merried desline herein with her consists properly	Jean Weaver, married, dealing herein with her separate property			Benjamin Price, sinole	Ernest N. Palmer, a widower, dealing herein with his separate property	David Drummond, single	Diane Carol Givens, married, dealing herein with her separate property	Jessica Marie Jensen, flV/a Jessica Givens, married, dealing herein with her separate property	Jonathon Montgomery, single	Sherri Lynn Hugic, a divorced woman	Arthur D. Stoner aka Art Dwight Stoner, a divorced man	Donald Geer and Dolores Ann Geer aka Dee Geer, husband and wife	Pamela Sue Amadni, a divorced woman	Scott G. Duncan and Heatner's, Duncan, nusband and Wife Mode Dunca Duncan and Zouthin Elizabath Duncan huntrand and wife	main by all buildail and Cylinia Elizabeth Duildai, insband and wild Andres Glassow and Karen S. Glassow, hisband and wife	Sean Timothy Duncan, a divorced man	William H. M. Rvan	SWN Production Company, LLC	(Company owned minerals)	Jerome Williams	Royally Owners	Anna May Miller, a widow dealing nerein with her separate property	James E. Williams, a married man dealing herein with his separate property, and Lois A. Williams, a married woman delainn hereinn with her sperate property		Joanne L. Turner, widow	Joseph R. N. Miller III, a married man, dealing herein with his sperate property	Robert W. Dally, Jr., a single man represented hereinby Clifford E. Good, as Power of Attorney	Joyce H. Tomalin, represented herein by Attorney-in-Fact	Beverly Miller, a widow	Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing herein with his eperate property, August Robert Alexander, a married man, dealing herein with his separate property, Linda S. Greathouse, a married woman, dealing herein with her sperate property, Charlente Ladistase, a married woman, dealing herein with the resperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Borontan Jealing herein with her seperate property, Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate		Robert L. Miller, Jr., married, dealing herein with his separate property, represented herein by Attomey-in-			Danket Branch, a married man, dealing herein withins separate property Bakkete Machamidt سمعتريط علمانية لمحترية بالمنافعة المنافعة المنا		Peter Brade, married, dealing herein with his separate property	Ray E. Lane, married, dealing herein with his separate property	George Diehl II, married, dealing herein with his separate property	James Branch, single
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Table Trade of an annied calling herein with his separate property James Bohnt, single James Debth it married, clasting herein with his separate property James Bohnt, single James	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC
DECENTED.	Fare I rate, dealing therein with his separate property George Diehl II, married, dealing herein with his separate property George Diehl II, married, dealing herein with his separate property James Diehl, single James Diehl, single James Diehl, single James Diehl, single Karen Binswanger, married, dealing herein with her separate property Margaret Miller, single Margaret Miller, single Margaret Miller, single Margaret Miller, withoven, married, dealing herein with his separate property Eric Price, married, dealing herein with his separate property Eric Price, married, dealing herein with his separate property Christine Herriott, frika Christine George, married, dealing herein with her separate property Sherret Novinger, filka Sherrel Pierson, single	Darret Preson, single Arjanta Scott, fikta Arjanta George, married, dealign herein with her separate property Jean Weaver, married, dealing herein with his separate property Lawrence S. George II, afka Stephen George, married herein with his separate property Lawrence S. George II, afka Stephen George, married herein with his separate property Bonnie Walter Benjamin Price, single Ernest IN. Palmer, a widower, dealing herein with her separate property David Drummond, single Diane Gord Givens, married, dealing herein with her separate property Jessica Marie Jensen, fikta Jessica Givens, married, dealing herein with her separate property Jonathon Montgomery, single Sherri Lymn Hugic, a divorced woman Arhun D. Stofner aka Art Dwight Stoner, a divorced man Donald Geer and Dolores Ann Geer aka Dee Geer, husband and wife Pamela Sue Arnaful, a divorced woman Scott G. Duncan and Heather S. Duncan, husband and wife Andre Slassow and Karen S. Glassow, husband and wife Sean Timothy Duncan, a divorced man William H. M. Ryan SWN Production Company, LLC (Company owned minerals)	

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14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	18.00%	18.00%	18.00%	18.00%	14.00%	4.00%	18.00%	18.00%	18.00%	18.00%	18.00%	18.00%	14.00%	14.00%	14.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	18.00%		14.00%		18.00%	14.00%	16.00%	16.00%	16.00%	18.00%	18.00%	18.00%	18.00%		14.00%
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Nancy Stratford, ff/va Nancy Miller, widow, represented herein by Margaret Miller as Power of Attorney	Peter Brade, married, dealing herein with his separate property			James Branch, single	James Diehl, single	Janice Miller, single	Karen Binswanger, married, dealing herein with her separate property	Laurence B. Lane, married, dealing herein with his separate property	Margaret Miller, single	Marjone Miller Winhoven, married, dealing herein withher separate property	Enc Price, married, dealing herein with his separate property	Frederick Anton Schneider, widow		Susan Sprouse, tit/a Susan Givens, married, dealing nerein with ner separate porperty Shared Maineas, tit/a Shared Bisessa, aingle	Sherrel Novinger, Itiva Sherrel Plerson, single	Darrel Pietson, single Arianta Scott fikla Arianta Geome married dealinn herein with her separate property	Jean Weaver, married, dealing herein with her separate property	Lawrence S. George II, alVa Stephen George, married herein with his separate property	Bonnie Walter	Benjamin Price, single	Emest N. Palmer, a widower, dealing herein with his separate property	David Drummond, single Diana Cond Civana marginal dealing bassis with has account a consequent	Diane Caliot Givens, manned, deaning nereni with her separate property Jessina Marie Jensen (fikja Jessina Givens, married, dealinn herein with her senarate property	Jonathon Montgomery, single	Sherri Lynn Hugic, a divorced woman		Donald Geer and Dolores Ann Geer aka Dee Geer, husband and wife	Pamela Sue Amadril, a divorced woman	Scott G. Duncan and Heather S. Duncan, husband and wife	Mark Bryan Duncan and Cyntnia Elizabeth Duncan, nusband and wite Andres Clesson, and Keren S. Clesson, husband and wife	Sean Timothy Duncan a divorced man	William H. M. Ryan	SWN Production Company, LLC	(Company owned minerals)	Royalty Owners	Anna May Miller, a widow dealing herein with her separate property	James E. Williams, a married man dealing herein with his separate property, and Lois A. Williams, a	married woman, delaing hereing with her sperate property Marikun Miller, a widow	Joanne L. Tumer, widow	Joseph R. N. Miller III, a married man, dealing herein with his sperate property	Robert W. Dally, Jr., a single man represented hereinby Clifford E. Good, as Power of Attorney	Joyce H. Tomalin, represented herein by Attorney-in-Fact	Beverly Miller, a widow	Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing prerein with his eperate property, August Robert Alexander, a married man, dealing herein with his separate property, Linda S. Greathouse, a married woman, dealing herein with her sperate property, Charlene LeMasties, a married woman, dealing herein with her seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Beverty Clifron-Lowe, a married woman, delaing herein with here	with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property	Marjorie Cook DeShazer, a widow
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	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	18.00%	18.00%	18.00%	18.00%	14.00%	14.00%	14.00%	18.00%	18.00%	18.00%	18.00%	18.00%	19.00%	14.00%	14.00%	14.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	18.00%			14.00%	18.00%	14.00%		16.00%	16.00%	16.00%	18.00%	18.00%	18.00%
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Fact, Susanne M. Ross	Dennis Stroh, married, dealing herein with his separate property	Daniel Branch, a married man, dealing herein withhis separate property	Bobbete McCormick, married, dealing herein with her separate property	Nancy Stratford, fik/a Nancy Miller, widow, represented herein by Margaret Miller as Power of Attorney	Peter Brade, married, dealing herein with his separate property	Ray E. Lane, married, dealing herein with his separate property	George Diehl II, married, dealing herein with his separate property	James Branch, single	James Diehl, single	Janice Miler single	Karen Binswanger, married, dealing herein with her separate property	Laurence B. Lane, married, dealing herein with his separate property	Margaret Miller, single	Marjone Miller Winhoven, married, dealing herein withher separate property	Eric Price, married, dealing herein with his separate property	Frederick Anton Schneider, widow	Christine Herriott, f/k/a Christine George, married, dealing herein with her separate property	Susan Sprouse, III/a Susan Givens, married, dealing herein with her separate porperty	Sherrel Novinger, flk/a Sherrel Pierson, single	Darrel Pierson, single	Arjanta Scott, f/Na Arjanta George, married, dealign herein with her separate property	Jean Weaver, married, dealing herein with her separate property	Lawrence S. George II, alk/a Stephen George, married herein with his separate property	Bonnie Walter	Benjamin Price, single	Ernest N. Palmer, a widower, dealing herein with his separate property	David Charl Charle married dealine hearing with her consents according	Draile Calol Givells, Intained, dealing Herein Will her separate property	Josephon Montoness, inva Jessica Givers, irranicu, deaming herem with her separate property	Solidation (World grants), surgre- Sherri I vnn Huoic, a divorced woman	Arthur D. Stoner aka Art Dwight Stoner, a divorced man	Donald Geer and Dolores Ann Geer aka Dee Geer, husband and wife	Pamela Sue Amadril, a divorced woman	Scott G. Duncan and Heather S. Duncan, husband and wife	Mark Bryan Duncan and Cynthia Elizabeth Duncan, husband and wife	Andres Glassow and Karen S. Glassow, husband and wife	Sean Timothy Duncan, a divorced man	William H. M. Ryan	SWN Production Company, LLC	(Company owned minerals)	- 1	royany Owners Anna Mav Miller, a widow dealing herein with her separate property	James E. Williams, a married man dealing herein	married woman, delaing hereing with her sperate		•	Joseph R. N. Miller III, a married man, dealing herein with his sperate property	_	•	Beverly Miller, a widow
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EXHIBIT A Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator

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Uorlaid A., Arkander, a married man, dealing prenin with its septate property. Konther. L. Arkander, a married man, dealing prenin with its septate property. August Robert Alexander, a married man, dealing herein with his septate property. Linda S. Greathouse, a married woman, dealing herein with her septate property. Variation Eleviting herein with the septemate property. Wanda Bernet, a widow, dealing herein with her septemate property, Beverty Gilton-Lowe, a married woman, delaing herein with her septemate property. Beverty Gilton-Lowe, a married woman, delaing herein property. Dorothy Graft, a single woman, Nancy Postle, a married woman, dealing herein with her septemate property.	Cook DeShazer, a widow	Robert L. Miller, Jr., married, dealing herein with his separate property, represented herein by Attorney-in-	dealing herein with his separate property			Nancy Stratford, filva Nancy Miller, widow, represented herein by Margaret Miller as Power of Attorney	Peter Brade, married, dealing herein with his separate property		ed, dealing herein with his separate property	James Branch, single		narried, dealing herein with her separate property		Margaret Miller, single	parate property	with his separate property		Christine Herriott, IfVa Christine George, married, dealing herein with her separate property Suean Spraints (IfVa Suean Circus married) dealing herein with her separate property	dealing herein with her separate poliperty		Arjanta Scott, flVa Arjanta George, married, dealign herein with her separate property		eorge II, a/k/a Stephen George, married herein with his separate property		benjamin Price, single Frinest N. Dalmer a widower dealing herein with his separate property		ried, dealing herein with her separate property	ssica Givens, married, dealing herein with her separate property			Attitut D. Stonel aka Att Dwight Stoner, a divorced man Donald Geer and Dolores Ann Geer aka Dee Geer hisband and wife		, husband and wife	nd and wife	, husband and wife	an, a divorced man	William H. M. Ryan	SWN Production Company, LLC			Anna May Miller, a widow dealing herein with her separate property	rein with his separate property, and Lois A. Williams, a	married woman, delaing hereing with her sperate property		Joseph P. N. Miller III. a married man dealing berein with his enerste property.	Herein Will his spelate property
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Joyce H. Tomalin, represented herein by Attomey-in-Fact Beverly Miller, a widow	Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing herein with his eperate property, August Robert Alexander, a married man, dealing herein with his separate property, Linds S. Greathouse, a married woman, dealing herein with her separate property, Chartene LeMastes, a married woman, dealing herein with the resperate Bennet, a widow, dealing herein white her separate property, Wanda Bennet, a widow, dealing herein with the separate property, Reverty Clifton-Lowe, a married woman, dealing herein with her separate property, Norma Jean Schoene, a married woman, dealing herein with her separate property. Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her separate property.	Marjone Cook DeShazer, a widow	Robert L. Miller, Jr., married, dealing herein with his separate property, represented herein by Attomey-in-	Fact, Susanne M. Ross Dennis Stroh, married, dealing herein with his separate property	Daniel Branch, a married man, dealing herein withhis separate property	Bobbete McCormick, married, dealing herein with her separate property	Nancy Stratford, f/k/a Nancy Miller, widow, represented herein by Margaret Miller as Power of Attomey	Peter Brade, married, dealing herein with his separate property	Ray E. Lane, married, dealing herein with his separate property	George Diehl II, married, dealing herein with his separate property	James Branch, single	Janica Miller single	Karen Binswanger, married, dealing herein with her separate property	rried, dealing herein v	Margaret Miller, single	Marjorie Miller Winhoven, married, dealing herein withher separate property	End Price, married, dealing herein with his separate property	Fredenck Anion Schneider, widow Christine Harriott (11/19 Christine Ganthe married dealing herain with her separate property	Susan Sorouse, fikla Susan Givens, married, dealing herein with her senarate boroerty	Sherrel Novinger, f/k/a Sherrel Pierson, single		Arjanta Scott, fliva Arjanta George, married, dealign herein with her separate property	Jean Weaver, married, dealing herein with her separate property	Lawrence S. George II, al/Va Stephen George, married herein with his separate property	Bonie Walter Bonismin Drice sinds	Emest N. Palmer, a widower, dealing herein with his separate property	David Drummond, single		Jessica Marie Jensen, flk/a Jessica Givens, married, dealing herein with her separate property	Jonathon Montgomery, single	Strent Lyth flugic, a divolced woman	Donald Geer and Dolores Ann Geer aka Dee Geer, husband and wife	Pamela Sue Amadril, a divorced woman	Scott G. Duncan and Heather S. Duncan, husband and wife	Mark Bryan Duncan and Cynthia Elizabeth Duncan, husband and wife	Andres Glassow and Karen S. Glassow, husband and wife	Sean Timothy Duncan, a divorced man	William H. M. Ryan	SWN Production Company, LLC	(Company owned minerals) Jerome Williams	Royalty Owners	Anna May Miller, a widow dealing herein with her separate property	James E. Williams, a married man dealing herein with his separate property, and Lois A. Williams, a	married woman, detaing hereing with her sperate property
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Joseph R. N. Miller II, a married man, dealing herein with his sperate property Robert W. Dally, Jr., a single man represented hereinby Clifford E. Good, as Power of Attomey Joyce H. Tomatin, represented herein by Attomey-in-Fact Beverly Miller, a widow	Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing bretal with his separate property, August Robert Alexander, a married man, dealing herein with his separate property, Linds S. Greathouse, a married woman, dealing herein with her seperate property, Linds S. Greathouse, a married woman, dealing herein with her seperate property, Wands Bennet, a widow, dealing herein with her seperate property, Nama Jean Schoene, a married woman, dealing herein with her seperate property, Nama, Jean Schoene, a married woman, dealing herein with her seperate property, Norma, Jean Schoene, a married woman, dealing herein with her seperate property, Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property.	Robert L. Miller, Jr., married, dealing herein with his separate property, represented herein by Attomey-in-	Fact, Susanne M. Ross Dannis Strib, manied dealing barein with his constate anneato	Daniel Branch, a married man, dealing herein with his separate property	Bobbete McCormick, married, dealing herein with her separate property	Nancy Stratford, f/k/a Nancy Miller, widow, represented herein by Margaret Miller as Power of Attorney	Peter Brade, married, dealing herein with his separate property	Ray E. Lane, married, dealing herein with his separate property	George Diehl II, married, dealing herein with his separate property	James Branch, single	James Diehl, single	Janice Miller, single	Karen Binswanger, married, dealing herein with her separate property	Laurence 5. Lane, married, dealing nerein with his separate property Marrianat Millar, sincle	Marjorie Miller Winhoven, married, dealing herein withher separate property	Eric Price, married, dealing herein with his separate property	Frederick Anton Schneider, widow		Susan Sprouse, fil/a Susan Givens, married, dealing herein with her separate porperty	Sherrel Novinger, tit/a Sherrel Pierson, single	Darrel Pierson, single Admin Scott (1970 Admin Commo mentical decline benein with her concents according		Lawrence S. George II, alk/a Stephen George, married herein with his separate property	Bonnie Walter		Emest N. Palmer, a widower, dealing herein with his separate property		Diane Carol Givens, marned, dealing herein with her separate property	Jonathon Montcomery, single	Sherri Lynn Hugic, a divorced woman	Arthur D. Stoner aka Art Dwight Stoner, a divorced man	Donald Geer and Dolores Ann Geer aka Dee Geer, husband and wife	Pamela Sue Amadrii, a divorced woman	Scott G. Duncan and Heather S. Duncan, husband and wife	Mark Bryan Duncan and Cynthia Elizabeth Duncan, husband and wife	Andres Glassow and Karen S. Glassow, husband and wife	Sean Timothy Duncan, a divorced man	William H. M. Ryan	SWN Production Company, LLC	Jerome Williams	Karen Binswanger, married, dealing herein with her separate property	Peter Brade, married, dealing hereing with his separate property
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EXHIBIT A
Attached to and made a part of the State of West Virginia OII and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator
Brian Teslovich BRK 3H
Brooke County, West Virginia

14% 40/177 385/560						40/177 385/560 384/377 36/332 37/673	40/177 385/560 384/377 36/392 37/673 43/198	40/177 385/560 384/377 36/302 37/673 43/203	40/177 385/560 384/377 36/302 37/673 43/203 43/203	40/177 385/560 384/377 36/302 37/673 43/203 43/203 43/208	40/177 385/560 384/377 36/3902 37/673 43/208 43/208 43/213	40/177 385/560 384/377 36/302 37/673 43/198 43/203 43/203 43/203 43/203 43/203 43/203 43/203	43/208 43/207 38/4/377 36/302 37/673 43/208 43/208 43/218 43/223 43/223	40/177 385/560 384/377 36/302 37/673 43/198 43/208 43/218 43/218 43/228 43/228 43/228 43/228	40/177 385/560 384/377 36/3902 37/673 43/208 43/208 43/213 43/228 43/228 45/284 45/289	43/177 385/560 384/377 36/302 43/673 43/198 43/203 43/213 43/213 43/223 45/284 45/284	45/567 384/377 384/377 384/377 36/3902 43/198 43/208 43/203 43/213 43/223 45/284 45/289 45/299	49/177 38/5/50 384/377 36/302 3/673 43/03 43/208 43/208 43/213 43/23 43/28 45/284 45/289 48/679	49/177 38/5/50 38/302 36/302 3/673 43/198 43/203 43/208 43/213 43/213 43/228 45/284 45/289 48/673	40/177 38/5/50 38/4/377 38/4/377 36/302 43/208 43/208 43/208 43/218 43/223 43/223 45/294 45/294 45/294 46/73 48/677	40/177 385/560 384/377 36/302 37/673 43/208 43/208 43/208 43/208 43/208 43/208 43/208 43/208 45/204 45/207 45/2	49/1777 385/560 384/377 36/3302 37/673 43/208 43/208 43/213 43/228 43/228 45/299 45/299 45/299 48/673 48/673 48/673 48/673 48/673 30/480	49/1777 385/560 384/377 36/3302 37/673 43/203 43/203 43/203 43/203 43/203 43/203 45/204 45/209 48/673 48/673 48/673 30/480	40/177 38/5/50 38/4/377 38/4/377 36/302 43/203 43/203 43/203 43/203 43/203 45/204 45/204 45/209 48/673 48/673 48/673 48/673 48/673 48/673 48/673 48/673 48/673 48/673 48/673 48/673 48/673 48/673 48/673	40/177 384/377 384/377 384/377 37/673 43/208 43/208 43/208 43/208 43/208 43/208 43/208 43/208 43/208 45/204 45/	40/177 384/377 384/377 384/377 36/302 43/203 43/203 43/203 43/203 43/203 45/204 45/204 45/209 46/209 48/673 48/	40/177 384/377 384/377 384/377 36/302 43/198 43/198 43/208 43/208 43/208 43/208 43/208 43/208 43/208 43/208 43/208 43/208 45/209 45/209 46/709 48/673 48/	40/177 385/560 384/377 36/302 37/673 43/208 43/208 43/208 43/213 43/228 45/284 45/289 48/677 12/778 30/480 29/166 29/166
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MAY 2 0 2020

WV Department of Environmental Protection



4700900311

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

April 22, 2020

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

RE: SWN's proposed New Well: Brian Teslovich BRK 3H in Brooke County, West Virginia, Drilling under 4576 WV-2, Apple Pie Ridge Road, and Coss Road.

Dear Ms. Adkins:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under 4576 WV-2, Apple Pie Ridge Road, and Coss 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,

Gary Nuckolls Staff Landman

SWN Production Company, LLC

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WV Department of Environmental Protection

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

e Certification: 5 18120		API No. 4	7- 009 -
		Operator's	s Well No. Brian Teslovich BRK 3H
· ·		Well Pad I	
peen given:			
e provisions in West Virginia Code § 22-6A, th	e Operator has pro	ovided the red	quired parties with the Notice Forms listed
tract of land as follows:			
West Virginia	TITM NAD 92	Easting:	531,194.868
009- Brooke	UTWINAD 63	Northing:	4,451,870.643
Buffalo	Public Road Ac	cess:	McCord Hill Road
Tiltonsville	Generally used	farm name:	Brian Teslovich
Grog Run			
West Virginia Code § 22-6A-7(b), every peri	mit application fil	ed under the	is section shall be on a form as may be
the secretary, shall be verified and shall contain	n the following int	formation: (1	4) A certification from the operator that (i)
ed the owners of the surface described in sub	divisions (1), (2)	and (4), sub	section (b), section ten of this article, the
	e provisions in West Virginia Code § 22-6A, the tract of land as follows: West Virginia 009- Brooke Buffalo Tiltonsville Grog Run West Virginia Code § 22-6A-7(b), every perithe secretary, shall be verified and shall contain	e provisions in West Virginia Code § 22-6A, the Operator has protract of land as follows: West Virginia 009- Brooke Buffalo Tiltonsville Grog Run UTM NAD 83 Public Road Act Generally used in the secretary, shall be verified and shall contain the following interpretations.	Operator' Well Pad I Deen given: e provisions in West Virginia Code § 22-6A, the Operator has provided the re tract of land as follows: West Virginia 009- Brooke Buffalo Tiltonsville UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:

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

Pursuant to West Virginia Code § 22-6A, the Opthat the Operator has properly served the require *PLEASE CHECK ALL THAT APPLY	perator has attached proof to this Notice Certification and parties with the following:	OOG OFFICE USE
TLEASE CHECK ALL THAT APPLY		ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
2. NOTICE OF ENTRY FOR PLAT SURV	VEY or ☐ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
3. NOTICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	☐ RECEIVED/ NOT REQUIRED
	WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) RECEIVED Office of Oil and Gas	
4. NOTICE OF PLANNED OPERATION	MAY 2 0 2020	☐ RECEIVED
5. PUBLIC NOTICE	WV Department of Environmental Protection	☐ RECEIVED
■ 6. NOTICE OF APPLICATION		RECEIVED

Required Attachments:

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

WW-6AC (1/12)

Certification of Notice is hereby given:

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

Well Operator: SWN Production Co., LLC

By:

Brittany Woody

Its:

Senior Regulatory Analyst

Telephone:

304-884-1610

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:

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

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MAY 2 0 2020

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 of No	otice: 5/8/20 Date	Permit Applicat	ion Filed; 5	18/30	
-	MIT FOR ANY LL WORK			PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Delivery r	nethod pursuant to W	est Virginia Co	de § 22-6A-10	0(b)	
		GISTERED AIL		OD OF DELIVERY THAT REQUIRES A IPT OR SIGNATURE CONFIRMATION	
registered is sediment of the surface oil and gas described is operator or more coals well work, impoundmentable a water provide was proposed with subsection records of provision of Code R. §	mail or by any method of control plan required by so of the tract on which the leasehold being developed in the erosion and sediment lessee, in the event the seams; (4) The owners of the surface tract is to cent or pit as described in the event that it is to cent or pit as described in the event that it is to cent or pit as described in the event that it is to the event of the event of the event of the series of the section hold in the sheriff required to be of this article to the control of the event in pickets.	f delivery that requestion seven of the well is or is proposed by the proposed by the proposed for the plant of the subsection of the subsection of the subsection of the plant of the plan	puires a receipt of his article, and to posed to be located well work, it ubmitted pursua which the well purface tract or tracement, constrained within one tic animals; and for more than threads, the application and to section on the holder is not ator shall also p	it as required by this article shall deliver, by personal or signature confirmation, copies of the application, the well plat to each of the following persons: (1) The ated; (2) The owners of record of the surface tract or of the surface tract is to be used for roads or other land ant to subsection (c), section seven of this article; (3) roposed to be drilled is located [sic] is known to be used so overlying the oil and gas leasehold being develop ruction, enlargement, alteration, repair, removal or about any surface owner or water purveyor who is known to thousand five hundred feet of the center of the well plated. The operator of any natural gas storage field with the tenants in common or other co-owners of interests on the may serve the documents required upon the persone eight, article one, chapter eleven-a of this code. (2) Note that the well Site Safety Plan ("WSSP") to the surface provided in section 15 of this rule.	the erosion and a owners of record of tracts overlying the disturbance as The coal owner, anderlain by one or bed by the proposed andonment of any of the applicant to be add which is used to the min which the described in described in the lotwithstanding any andowner. W. Va.
☑ Applica	ation Notice WSS	Notice DE&	S Plan Notice	☑ Well Plat Notice is hereby provided to:	
SURFA Name: Bria	CE OWNER(s)			COAL OWNER OR LESSEE Name: Windsor Coal Company	RECEIVED
	211 Sunset Drive			Address: 1000 Consol Energy Drive	RECEIVED Office of Oil and Gas
Belle Vernon,			-	Canonsburg, PA 15317	MAY 0.0 0000
Name:				□ COAL OPERATOR	MAY 2 0 2020
Address:				Name:	WV Department of
			- 33.00	Address:	Environmental Protection
	CE OWNER(s) (Road		And the second second		
Name:			-	SURFACE OWNER OF WATER WELL	
Address:				AND/OR WATER PURVEYOR(s) Name: See Attachment 13A	
Name:				Address:	
Address:					
	CE OWNER(s) (Impou			OPERATOR OF ANY NATURAL GAS STORName:	
Name:				Address	
				*Please attach additional forms if necessary	

Attachment 13 A

4700000311

03 B36014500000000	TESLOVICH BRIAN L	211 SUNSET DR	BELLE VERNON	PA	15012	1
03 B36014200000000	ADAMS MARK A & MELODY J	4762 APPLEPIE RIDGE RD	WELLSBURG	wv	26070	3
03B36L004200000000	COULTER STANLEY E & JOYCE	5108 APPLE PIE RIDGE RD	WELLSBURG	wv	26070	1

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MAY 2 0 2020

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

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

WW-6A (8-13) 47009900311

OPERATOR WELL NO. Brian Testovich BRK 3H

Well Pad Name: Brian Teslovich BRK

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:

RECEIVED
Office of Oil and Gas

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

MAY **2 0** 2020

WV Department of Environmental Protection

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

WW-6A (8-13) API NO. 47-009

OPERATOR WELL NO. Brian Teslovich BRK 3H

Well Pad Name: Brian Teslovich BRK

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Office of Oil and Gas

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WW-6A (8-13) API NO. 47=009 0 0 9 0 0 3 1 1

OPERATOR WELL NO. Brien Teslovich BRK 3H

Well Pad Name: Brian Teslovich BRK

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 awy gov.

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

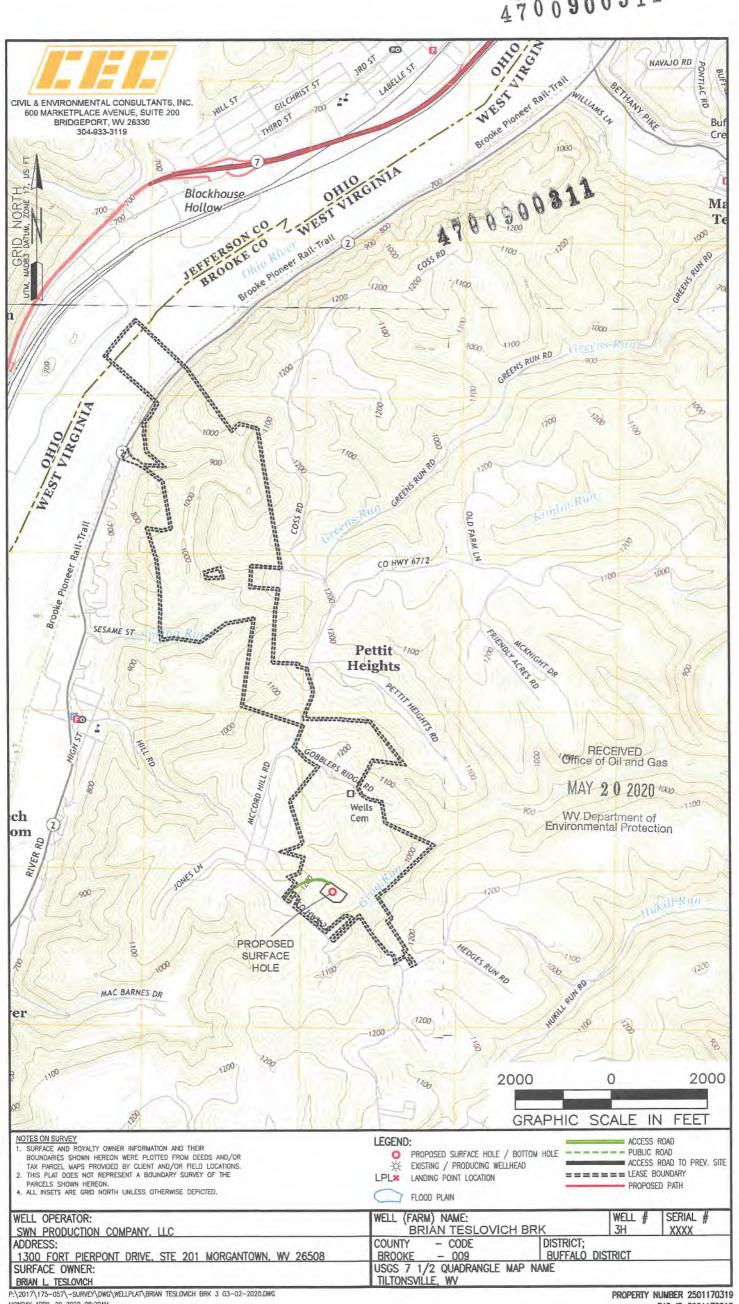
Subscribed and sworn before me this

th day of April 2020

My Commission Expires 7-20-2

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MAY 2 0 2020



Operator Well No. Brian Teslovich BRK

WW-6A3 (1/12)

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to

entry Date of Notic	e: 2/27/2020	Date of Pla	nned E	ntry: 3/4/2020				
Delivery met	hod pursuant	to West Virginia C	ode § 2	2-6A-10a				
☐ PERSO	VAI.	REGISTERED	П	METHOD OF	DEL	IVERY THAT RE	OLURES A	
SERVIC		MAIL				ATURE CONFIR		
on to the surfi- but no more t beneath such owner of min and Sediment Secretary, wh enable the sur	ace tract to cond han forty-five of tract that has fi- erals underlying Control Manual ich statement stace owner to con	duct any plat survey lays prior to such en led a declaration pur g such tract in the coal and the statutes are hall include contact obtain copies from the survey of the statute of the st	s requir try to: (rsuant to bunty ta d rules informa	red pursuant to t 1) The surface of a section thirty-son ax records. The related to oil are ation, including	his ar owner six, ar notice id gas	ticle. Such notice s of such tract; (2) t ticle six, chapter to shall include a stall exploration and pro-	hall be provid o any owner o wenty-two of t tement that co oduction may	notice of planned entry led at least seven days or lessee of coal seams this code; and (3) any opies of the state Erosion be obtained from the retary's web site, to
Notice is her	eby provided t	0:						
	CE OWNER(s)				COAL	OWNER OR LE	SSEE	RECEIVED Office of Oil and Gas
Name: Brian L.		5	_			Leatherwood, Inc. Alln: Ca	asey Saunders	Office of Oil and Gas
Address: 411			_		-	000 Consol Energy Drive		MAY 2 0 2020
Belle Vemon, PA 1	5012		-	Canons	sburg, F	A 15317		
Name: Address:			_		1	CRAL OWNER(s)		WV Department of Environmental Protection
Victoria .			_			n L. Teslovich		
Name:						111 Sunset Drive		
Address:			3			A 15012 additional forms if neo	essary	
	est Virginia Co	ode § 22-6A-10(a), and as follows:	notice is	Approx. Public R Watershe	Latitu oad A	ide & Longitude:	operator is pla 40.216574, -80.63 Apple Pie Ridge Lower Buffalo Cre Brian Teslovich	
Quadrangie.	LIIDHSVIIIE			Generali	y use	a rarm name:	Brian Teslovich	
may be obtain Charleston, W	ned from the Se V 25304 (304	cretary, at the WV I	Departm of such	nent of Environments or	nenta additi	Protection headque onal information re	arters, located	oration and production d at 601 57 th Street, SE, ontal drilling may be
Notice is he	reby given by	7:						
Well Operato		TION COMPANY, LLC		Addre	SS:	1300 Fort Pierpont Dr., 3	Suite 201	
Telephone:	304-884-1610					Morgantown, WV 26508		
Email:	britlany_woody@	@swn.com		Facsin	nile:	304-884-1690		
Oil and Cas	Privacy Not	ica:						

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

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

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

Notice Time Date of Notic	e: 03/17/2020	Date	ed at least TEN (10) days prior to filing a Permit Application Filed:	устин аррисация	
Delivery met	hod pursuant t	o West Virginia Cod	e § 22-6A-16(b)		
☐ HAND		CERTIFIED MAIL			
DELIVE	CRY	RETURN RECEIPT	REQUESTED		
receipt reques drilling a hori of this subsec subsection ma and if availab	ted or hand delizontal well: Protion as of the day be waived in le, facsimile nur	ivery, give the surface rovided, That notice give the notice was proverting by the surface mber and electronic manager.	n days prior to filing a permit application, owner notice of its intent to enter upon the iven pursuant to subsection (a), section to fided to the surface owner: <i>Provided, how</i> owner. The notice, if required, shall include all address of the operator and the operator	he surface owner's en of this article sa vever, That the not lude the name, add	s land for the purpose of stisfies the requirements tice requirements of this ress, telephone number,
Notice is her Name: Windsor		to the SURFACE	OWNER(s): Name:		
	Consol Energy Drive		Address:		-
Canonsburg, PA	15317				
	est Virginia Co		tice is hereby given that the undersigned a horizontal well on the tract of land as fo		an intent to enter upon
Pursuant to W the surface ow State: County: District:	Vest Virginia Covner's land for t West Virginia Brooke Buffalo		a horizontal well on the tract of land as for Easting: UTM NAD 83 Northing: Public Road Access:	511,194.868 4,451,870.643 McCord Hill Road	Office of Oil and Gas
Pursuant to W the surface ov State: County:	Vest Virginia Co vner's land for t West Virginia Brooke		a horizontal well on the tract of land as for Easting: UTM NAD 83 Easting: Northing:	531,194.868 4,451,870.643	Office of Oil and Gas
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Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile num related to hori located at 601 Notice is her Well Operator	Vest Virginia Covner's land for to West Virginia Brooke Buffalo Tiltonsville Grog Run Shall Include Vest Virginia Couber and electrosizontal drilling 57th Street, SE, reby given by: SWN Production 1300 Fort Pierpo	the purpose of drilling and the purpose of drilling and the content of the conten	a horizontal well on the tract of land as for Easting: Northing: Public Road Access: Generally used farm name: this notice shall include the name, addresse the operator and the operator's authorized the Secretary, at the WV Department of the Secretary, at the WV Department of the Secretary, at the WV Department of Authorized Representative:	ollows: 531,194.868 4,451,870.643 McCord Hill Road Brian Teslovich BRK ress, telephone nued representative. of Environmental Fep. wv.gov/oil-and- Reid Croft 1300 Fort Pierpont I	MAY 20 2020 MAY 20 2020 Environmental Protection mber, and if available, Additional information Protection headquarters, gas/pages/default.aspx.

Oil and Gas Privacy Notice:

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

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

Date of Noti		ermit Application Filed:	permit application.
Delivery me	thod pursuant to West Virginia (Code § 22-6A-16(c)	
CERTI	FIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
return receip the planned required to be drilling of a damages to the (d) The notice of notice. Notice is here (at the address Name: Windson	t requested or hand delivery, give to operation. The notice required by e provided by subsection (b), section horizontal well; and (3) A proposite surface affected by oil and gas of es required by this section shall be reby provided to the SURFACE (as listed in the records of the sheriff real Company	the surface owner whose land will be by this subsection shall include: (1) on ten of this article to a surface owned surface use and compensation apperations to the extent the damages a given to the surface owner at the additional compensation.	nit application, an operator shall, by certified mail is used for the drilling of a horizontal well notice of A copy of this code section; (2) The information her whose land will be used in conjunction with the greement containing an offer of compensation for are compensable under article six-b of this chapter. Iddress listed in the records of the sheriff at the time
ribile to	To the second		
Notice is her Pursuant to V operation on State:	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia		rsigned well operator has developed a planning of Oil and Gas in the tract of land as follows: MAY 9.0
State: County:	West Virginia Brooke	UTM NAD 83 No	orthing: 531,194.868 MAY 2 0 2020
State: County: District:	West Virginia Brooke Buffalo	UTM NAD 83 No Public Road Access:	orthing: 531,194.868 MAY 2 0 2020
State: County: District: Quadrangle:	West Virginia Brooke Buffalo Tiltonsville	UTM NAD 83 No	sting: 531,194.868 MAY 2 0 2020 4.451,870.643 McCord Hill Road WV Departure
County: District: Quadrangle: Watershed: This Notice: Pursuant to V to be provide orizontal we surface affect of formation in the control of	Brooke Buffalo Tiltonsville Grog Run Shall Include: West Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(bell; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may located at 601 57th Street, SE, fault.aspx.	Public Road Access: Generally used farm this notice shall include: (1)A copy to a surface owner whose land we and compensation agreement containe extent the damages are compensate obtained from the Secretary, at Charleston, WV 25304 (304-92)	orthing: 531,194.868 MAY 2 0 2020
State: County: District: Quadrangle: Watershed: This Notice: Pursuant to Vero be provide norizontal we surface affect information in headquarters, gas/pages/def	West Virginia Brooke Buffalo Tiltonsville Grog Run Shall Include: West Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(bell; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may located at 601 57th Street, SE, fault.aspx. Dr: SWN Production Company, LLC	Public Road Access: Generally used farm this notice shall include: (1)A copy to a surface owner whose land we and compensation agreement containe extent the damages are compensation be obtained from the Secretary, at Charleston, WV 25304 (304-92) Address: 1300 For	rithing: 4.451,870.643 McCord Hill Road Iname: Brian Teslovich BRK WV Department of Environmental Protection of this code section; (2) The information required will be used in conjunction with the drilling of a uning an offer of compensation for damages to the able under article six-b of this chapter. Additional the WV Department of Environmental Protection (6-0450) or by visiting www.dep.wv.gov/oil-and- of Pierpont Dr., Suite 201
State: County: District: Quadrangle: Watershed: This Notice: Pursuant to Vato be provide thorizontal we surface affectinformation	Brooke Buffalo Tiltonsville Grog Run Shall Include: West Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(bell; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may located at 601 57th Street, SE, fault.aspx.	Public Road Access: Generally used farm this notice shall include: (1)A copy to a surface owner whose land we and compensation agreement containe extent the damages are compensation be obtained from the Secretary, at Charleston, WV 25304 (304-92) Address: 1300 For	name: MAY 2 0 2020

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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: 04/03/2020	Notice shall be provided Date P	at least TEN (10) days prior to filing a ermit Application Filed:	permit application.
Delivery me	thod pursuant	to West Virginia Code §	22-6A-16(b)	
☐ HAND		CERTIFIED MAIL		
DELIVI		RETURN RECEIPT RE	COLIESTED	
receipt reque drilling a hor of this subsec- subsection m and if availab	sted or hand del rizontal well: Portion as of the dra ay be waived in ole, facsimile nu	ivery, give the surface of rovided, That notice give ate the notice was provide writing by the surface of mber and electronic mail	wher notice of its intent to enter upon the pursuant to subsection (a), section to ed to the surface owner: <i>Provided</i> , how wher. The notice, if required, shall includers of the operator and the operator	an operator shall, by certified mail return he surface owner's land for the purpose of an of this article satisfies the requirements ovever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative. Office of Oil and Gas
		d to the SURFACE O		
Name: Brian L. Address: 211		- A	Name:	MAY 2 0 2020
Belle Vernon, PA		1	Address:	WV Department of
Boild Vollion, 17	110012			Environmental Protection
the surface of State: County:	Wher's land for the West Virginia Brooke	the purpose of drilling a l	Orizontal well on the tract of land as for Easting: Northing:	531,194.868 4,451,870.643
District:	Buffalo		Public Road Access:	McCord Hill Road
Quadrangle:	Tiltonsville		Generally used farm name:	Brian Teslovich BRK
Watershed:	Grog Run			
Pursuant to facsimile nur related to ho	mber and electr rizontal drilling	Code § 22-6A-16(b), this onic mail address of the may be obtained from the	e operator and the operator's authorize the 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			
Well Operato	C: SWN Production	n Company, LLC	Authorized Representative:	Reid Croft
Address:	1300 Fort Pierp	ont 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@sv	vn.com	Email:	Reid_Croft@swn.com
Facsimile:			Facsimile:	

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

Notice Time Date of Notic	Requirement: notice shall be provided rec: 04/03/2020 Date Permit A	o later than the filing opplication Filed:	date of permit	application.
Delivery met	thod pursuant to West Virginia Code §	22-6A-16(c)		
■ CERTI	FIED MAIL	HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a damages to the	requested or hand delivery, give the surface peration. The notice required by this see provided by subsection (b), section ten shorizontal well; and (3) A proposed surface affected by oil and gas operation	Tace owner whose land subsection shall inclused this article to a surface use and compen- tons to the extent the de-	I will be used for de: (1) A copy ace owner whost sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the 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
	eby provided to the SURFACE OWNE	TP(e)		Office of Oil and Gas
	is listed in the records of the sheriff at the			
Name: Brian L.		Name:		MAY 2 0 2020
Address: 211		Addres	5:	WV Department of
Belle Vernon, PA	15012	1		Environmental Protection
	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Brooke		I well on the tra	
District:	Buffalo	Public Road	Access:	McCord Hill Road
Quadrangle:	Tiltonsville	Generally us	ed farm name:	Brian Teslovich BRK
Watershed:	Grog Run			
Pursuant to V to be provide horizontal we surface affect information in	ed by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and ceted by oil and gas operations to the exterelated to horizontal drilling may be obtained at 601 57th Street, SE, Characteristics.	surface owner whose ompensation agreement the damages are cained from the Secre	e land will be un nt containing ar ompensable unc tary, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

March 16, 2020

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

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

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

Office of Oil and Gas

MAY 2 0 2020

WV Department of Environmental Protection

Subject: DOH Permit for the Brian Teslovich Pad, Brooke County Brian Teslovich BRK 3H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0873 which has been issued to Southwestern Energy for access to the State Road for a well site located off Brooke County Route 28 SLS.

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

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Brittany Woody

Southwestern Energy

CH, OM, D-6

File

		ttachment VI Frac Additives	470	090
Product Name	Product Use	Chemical Name	4 10	107-21 1
AI-303 (U.S. Well Services)	Mixture	Ethylene glycol Cinnamaldehyde		104-55 2
		ACCUSATION OF A CONTRACT OF A		111-76 2
		Butyl cellosolve		64-18 6
		Formic acid		Proprietary
		Polyether Acetophenone, thiourea, formaldehyde polyn	ner	68527-49 1
			ici	
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate		7727-54-0
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde		111-30-8
		Quaternary Ammonium Compounds, Benzyl-C	12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol		64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol		67-56-1
		Quaternary Ammonium Compounds, Benzyl-C	12-16-Alkyldimethyl, Chlorides	68424-85-1
CarboNRT	Tracer	Ceramic Proppant		66402-68-4
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate		Proprietary
		Ethylene Glycol		107-21-1
EC6734A (Champion Technologies)	Biocide	Hydrogen Peroxide		7722-84-1
		Acetic Acid		64-19-7
		Peroxyacetic Acid		79-21-0
Econo-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol		67-56-1
ECONO-CIZOO (SAMA ANEN SELVICES)	COTTOSION INHIBITOR	Oxyalkylated fatty acid		68951-67-7
		Fatty acids		61790-12-3
		Modified thiourea polymer		68527-49-1
		Water		7732-18-5
		Hydrochloric acid		7647-01-0
		Potassium acetate		127-08-2
		Formaldehyde		50-00-0
e de la companya de l	New Accounts			64-19-7
Ecopol-FEAC (SWN Well Services)	Iron Control	Acetic Acid		
		Citric Acid		77-92-9
		Water		7732-18-5
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacylate		Proprietary
		Hydrotreated light petroleum distillate		64742-47-8
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light		64674-47-8
		Ethylene Glycol		107-21-1
		Alcohols, C12-16, Exoxylated propoxylated		68213-24-1
		Fatty Alcohols ethoxylated		Proprietary
		Water		7732-18-5
LOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary		Proprietary
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	RECEIVED	64742-47-8
		Inorganic Salt	Office of Oil and Gas	Proprietary
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	The state of the state	67-56-1
31F1KON 1-330 (Champion Technologies)	Scale Hillibitor	Nonylphenol Ethoxylate	MAY O A 2020	Proprietary
HAL 1505 (Halliburtary)	Consoling lubibites	No hazardous substance	MAI ZU ZUZU	
HAI-150E (Halliburton)	Corrosion Inhibitor			N/A
HCL (SWN Well Services)	Hydrocholic Acid	Hydrochloric Acid	NV Department of	7647-01-0
		water Env	ironmental Protection	7732-18-5
LP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate		Proprietary
1		Ammonium Chloride		12125-02-9
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light		64742-47-8
Plexslick 930	Friction Reducer	Copolymer of 2-propenamide	-	Proprietary
		Hydrotreated Distillate		64742-47-8
		Sodium Chloride		7647-14-5
		Alcohols, C12-16, Exoxylated		68551-12-2
		Oleic Acid Diethanolamide		93-83-4
		Ammonium Chloride		12125-02-9
Plexslick 953	Friction Reducer	Petroleum Distillate		64742-47-8
	Continue Continue	Sodium Chloride		7647-14-5
		Ammonium Chloride		12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide		93-83-4
Plexslick 957	Friction Reducer	Petroleum Distillate		64742-47-8
monattin 227	THEOR REDUCE	Ammonium Chloride		
		Oleic Acid Diethanolamide		12125-02-9
				93-83-4 68551-12-2
		Alcohols, C12-16, Exoxylated Water		
A/ERA 2000 /II S Well Senders	Antonio Fatation But			7732-15-5
VFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)		64742-47-8
N	Bodowski.	Propenoic acid, polymer with propenamide		9003-06 9
Plexaid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosph	onic acid)	15827-30-8
Plexslick 922	no data available	Copolymer of 2-propenaminde		69418-26-4
		Distillates (petroleum), hydotreated light		64742-47-8
		Ammonium chloride ((NH4)CI)		12125-02-9
111 - ALC		Oleic Acid Diethnolamide		93-83-4
olcide PS50A	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulph		55566-30-8
		Acrylic acid terpolymer containing carboxylate	phosphonate and sulfonate	
		groups		397256-50-7
.D-2950	Friction Reducer	Hydrotreated light petroleum distillate		64742-47-8
		Ethoxylated alcohol		Proprietary
		Poly (ovy-1 2-ethanodiyl) alpha tridend	as -budrous branch	
egend LD-7750W	Scale Control	Poly (oxy-1.2-ethanediyl) alphatridecylome Methanol	ganyuroxy-, pranched	69011-36-5
-0	Searc Continui			67-56-1 Depositors
MC MX 8-4743	Specialty Product	Phosphonic Acid Salt Sodium Nitrate		Proprietary 7631-99-4

