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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://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 405  
47-009-00313-00-00

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

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a white background.

Operator's Well Number: BRIAN TESLOVICH BRK 405  
Farm Name: BRIAN L. TESLOVICH  
U.S. WELL NUMBER: 47-009-00313-00-00  
Horizontal 6A New Drill  
Date Issued: 6/22/2020

# 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

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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.

## 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](mailto:DEPOOGNotify@wv.gov).

WW-6B  
(04/15)

4700900313

API NO. 47-009

OPERATOR WELL NO. Brian Teslovich BRK

Well Pad Name: Brian Teslovich BRK

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

1) Well Operator: SWN Production Co., LLC 494512924 009- Brooke 3- Buffalo 641-Tiltonsville  
Operator ID County District Quadrangle

2) Operator's Well Number: Brian Teslovich BRK 405H Well Pad Name: Brian Teslovich BRK

3) Farm Name/Surface Owner: Brian L. Teslovich Public Road Access: McCord Hill Road

4) Elevation, current ground: 1149' Elevation, proposed post-construction: 1151'

5) Well Type (a) Gas  Oil  Underground Storage

Other \_\_\_\_\_

(b) If Gas Shallow  Deep

Horizontal

6) Existing Pad: Yes or No No *Call 400*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressures(s):  
Target Formation- Marcellus, Up-Dip well to the North, Target Top TVD- 5744', Target Base TVD- 5795', Anticipated Thickness- 51', Associated Pressure- 3767

8) Proposed Total Vertical Depth: 5779'

9) Formation at Total Vertical Depth: Marcellus

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10) Proposed Total Measured Depth: 19457'

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11) Proposed Horizontal Leg Length: 12,343.20'

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12) Approximate Fresh Water Strata Depths: 115'

13) Method to Determine Fresh Water Depths: Nearby spring

14) Approximate Saltwater Depths: 405'- Salinity Profile

15) Approximate Coal Seam Depths: 266'

16) Approximate Depth to Possible Void (coal mine, karst, other): Possible Void 266'

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes  No

(a) If Yes, provide Mine Info: Name: Windsor Mine

Depth: 2166'

Seam: \_\_\_\_\_

Owner: Windsor Coal Co | CONSOL



18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	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#	19457'	19457'	lead 775sx/Tail 9202sx/ 100' Inside In
Tubing							
Liners							

*C-Bl 4.3.20*

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.19/50% 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

Kind:				
Sizes:				
Depths Set:				

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

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

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

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

See Attachment \*\*\*

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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 ADDITIVES						
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	<del>                    </del>	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	<del>                    </del>	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
INTERMEDIATE	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D047	FP 28L	<del>                    </del>	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	<del>                    </del>	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	<del>                    </del>	<del>                    </del>	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
PRODUCTION	<del>                    </del>	<del>                    </del>	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	<del>                    </del>	SS-11W	CJ880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	<del>                    </del>	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	<del>                    </del>	<del>                    </del>	CJ157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	<del>                    </del>	<del>                    </del>	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATIC AMIDE POLYMER	PROPRIETARY
	D255	<del>                    </del>	<del>                    </del>	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	<del>                    </del>	<del>                    </del>	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	<del>                    </del>	FL-66	CJ501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
	<del>                    </del>	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	<del>                    </del>	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	

**Southwestern Energy Company**

**Proposed Drilling Program**

Well: BRIAN TESLOVICH BRK 405 Re-entry Rig: TBD  
 Field: PANHANDLE FIELD WET Prospect: PANHANDLE  
 County: BROOKE State: WV  
 SHL: 40.2166 Latitude -80.6333 Longitude  
 BHL: 40.2528 Latitude -80.6420 Longitude  
 KB Elev: 1,175 ft MSL KB: 26 ft AGL GL Elev: 1,149 ft MSL



Coal Void at 266' TVD

PROD TOC Lead @ 1,629' MD  
 PROD TOC Tail @ 5,100' MD

TUBULAR DETAIL

	Size (in)	Weight	Grade	From	To
Conductor/Coal:	20	94.0 #	H-40	0'	100'
Surf./Coal:	13.375	48.0 #	H-40	0'	320'
Intermediate:	9.625	36.0 #	J-55	0'	1,609'
Production:	5.5	20.0 #	HCP-110	0'	19,457'

CEMENT DETAIL

	Sacks	Class	Density
Conductor	151	A	19.3
Surface	323	A	15.6
Intermediate	632	A	15.6
Production Lead	776	A	15.6
Production Tail	3202	A	15.6

KOP at 5,941' MD

Freshwater Depth - 115' TVD  
 Coal Void Depth - 266' TVD  
 Saltwater Depth - 405' TVD  
 TVD - 5,779'  
 TMD - 19,457'

TD at 19,457' MD  
 5,639' TVD

5,779' Target Center

EOB at 5,779' TVD

0' to 100'

0' to 340'  
Air / Mist

340' to 1,629'  
Air / Mist

1,629' to 5,941'  
Air / Mist

Air  
TD at 5,941'

5,941' to 7,113'  
12.4 - 12.8 ppg

7,113' to 19,457'  
12.4 - 12.8 ppg

Area of Review

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
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
4709700260	Cumberland & Allegheny Gas Company	Plugged	39.009223	-80.260798	4463	Benson	N/A
4709300064	Berea Oil and Gas Corporation	Plugged	39.089138	-79.454338	9700	Oriskany	N/A
4709300063	Cities Service Oil & Gas Corporation	Plugged	39.220207	-79.609345	9594	Tuscarora	N/A
4709700264	Pittsburgh & WV Gas	Completed	39.008594	-80.275883	4377	Benson	N/A

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WW-9  
(4/16)

API Number 47 - 009  
Operator's Well No. Brian Teslovich BRK (451)

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 Tiltonville

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number Various Approved Facilities )
- Reuse (at API Number At the next anticipated well )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain recovery and solidification on site )

Will closed loop system be used? If so, describe: Yes- See Attachment 3A

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Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. All drill to KOP, fluid drill with SOB **MAY 20 2020**

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base

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Additives to be used in drilling medium? Attachment 3B

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)

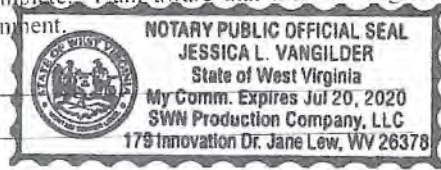
-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021

Apex Sanitary Landfill Ub-08438, Brooke Co SWF-1013,  
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Brittany Woody*  
Company Official (Typed Name) Brittany Woody  
Company Official Title Senior Regulatory Analyst



Subscribed and sworn before me this 3rd day of April, 2020

Jessica L. Vangilder Notary Public

My commission expires 7-20-20



**SWN Production Co., LLC**

Proposed Revegetation Treatment: Acres Disturbed 11.42 Prevegetation pH \_\_\_\_\_

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 lbs/acre

Mulch Hay/Straw Tons/acre

**Seed Mixtures**

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

**Attachment 3C**

**Attach:**

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: \_\_\_\_\_

*C. B. R. 4.3.20*

Comments: \_\_\_\_\_

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Title: Oil & Gas Inspector

Date: 4.3.20

Field Reviewed?

Yes

No

## 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 Separator (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)

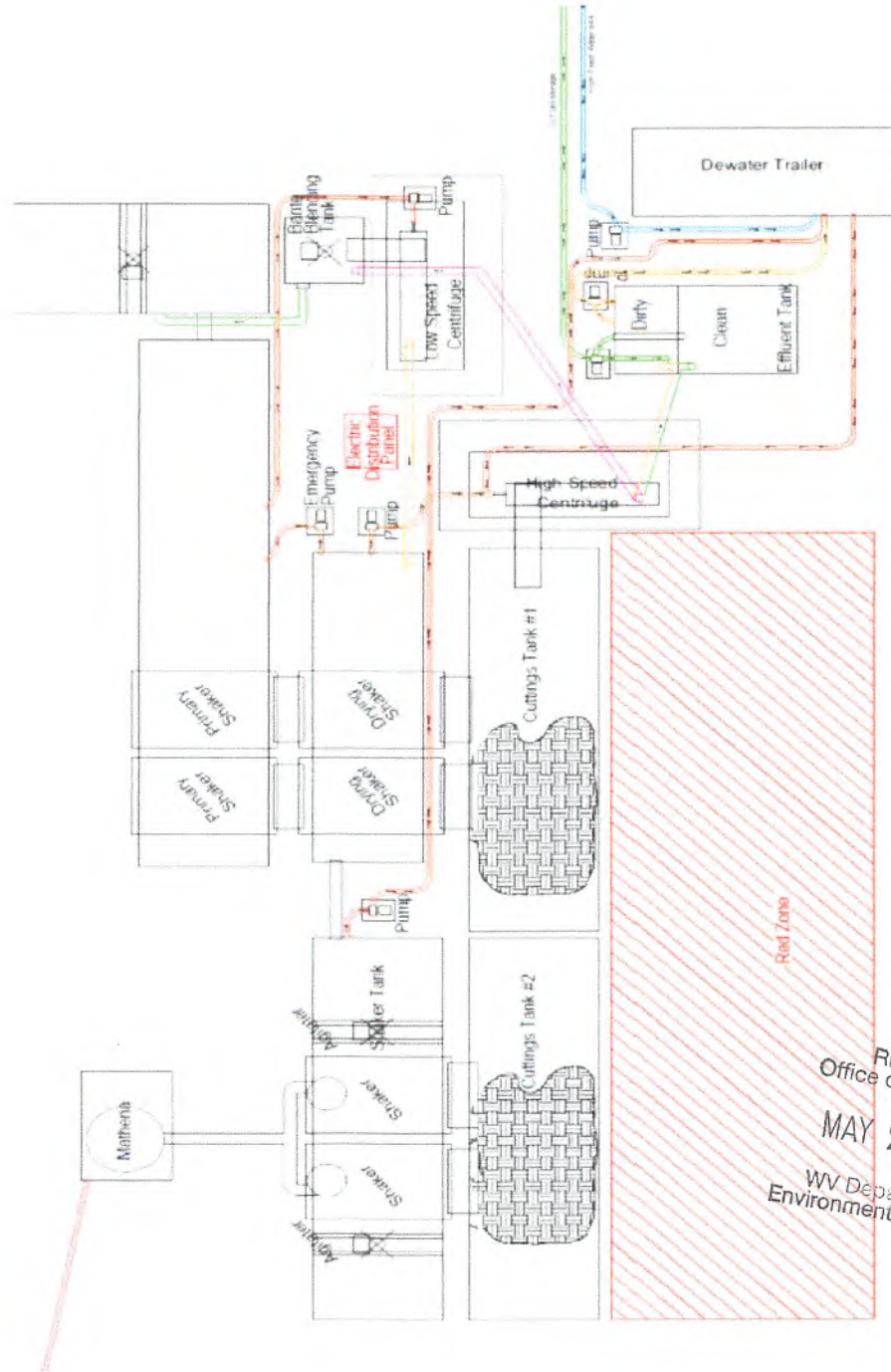
When drilling is converted to liquids drilling, the shale gas separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached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



Solids Control Layout



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4700900818

**Attachment 3B**  
**Drilling Mediums**

**Surface/Coal(if present)/Freshwater Intervals:**

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





Southwestern Energy

# WVD Seeding Specification

*R<sub>2</sub>-V<sup>+</sup>*

To Order Seed contact Lyndsi Eddy Filippo office 570-996-4271 cell 501-269-5451 lyndsi\_eddy@swn.com (please allow 7 to 10 days for delivery)

Attachment 3C

## NON-ORGANIC PROPERTIES

Seed Mixture: ROW Mix	SWN Supplied
Orchardgrass	40%
Timothy	15%
Annual Ryegrass	15%
Brown Top Millet	5%
Red Top	5%
Medium Red Clover	5%
White Clover	5%
Birdfoot Trefoil	5%
Rough Bluegrass	5%

All legumes are  
inoculated at 5x normal  
rate

Apply @ 100lbs per acre  
April 16th- Oct. 14th

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

## SOIL AMENDMENTS

10-20-20 Fertilizer	* Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre

\*unless otherwise dictated by soil test results

## Seeding Calculation Information:

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

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

## Special Considerations:

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

## ORGANIC PROPERTIES

Seed Mixture: SWN Production Organic Mix	SWN Supplied
Organic Timothy	50%
Organic Red or White Clover	50%
OR	
Organic Perennial Ryegrass	50%
Organic Red or White Clover	50%

Apply @ 100lbs per acre  
April 16th- Oct. 14th

Apply @ 200lbs per acre  
Oct. 15th- April 15th

Organic Fertilizer @ 200lbs per Acre

Pelletized Lime @ 2 Tons per Acre

## WETLANDS (delineated as jurisdictional wetlands)

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

Apply @ 25lbs per acre  
April 16th- Oct. 14th

Apply @ 50lbs per acre  
Oct. 15th- April 15th

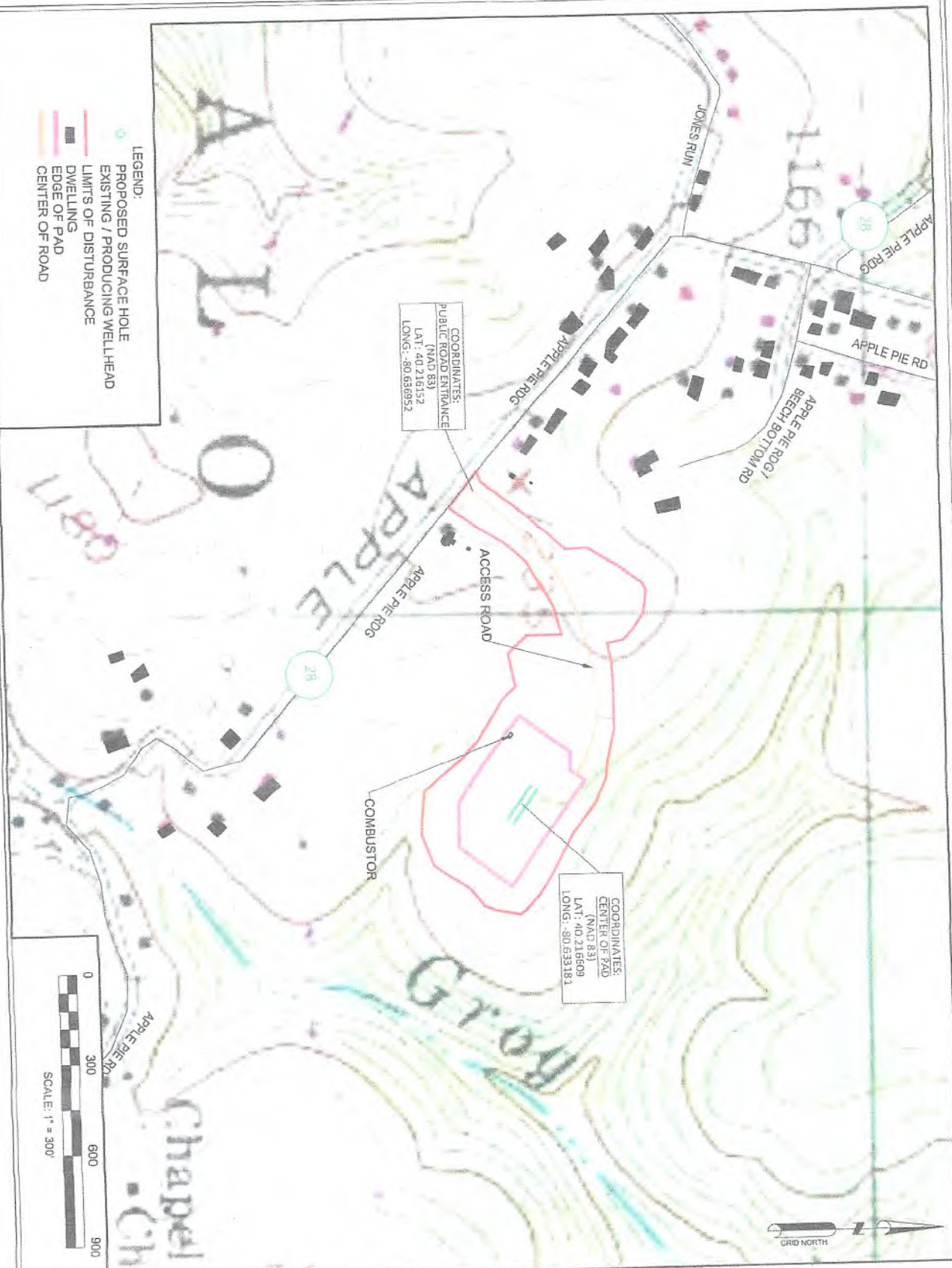
**NO FERTILIZER OR LIME INSIDE WETLAND LIMITS**

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WV Department of  
Environmental Protection



4700900313

- LEGEND:**
- PROPOSED SURFACE HOLE
  - EXISTING / PRODUCING WELLHEAD
  - LIMITS OF DISTURBANCE
  - DWELLING
  - EDGE OF PAD
  - CENTER OF ROAD



**JHA ENGINEERS SURVEYORS**  
**JHA ENVIRONMENTAL**  
*Company GIS MAPPING*

www.jhacompanies.com  
 68011 TURNBARD ROAD  
 ST. CHARLES, VA 23060  
 (703) 995-5100  
 PA, VA, WV, NC

PROJECT: BURN TESSLOVICH BRK PAD  
 SITE: BURN TESSLOVICH BRK PAD  
 SCALE: AS NOTED  
 DATE: 06/24/2020  
 DRAWN: LUC  
 CHECKED: LUC  
 TITLE: ACCESS ROAD MAP  
 REVISION: 2

PREPARED FOR:  
**SWN**  
 Southwestern Energy  
 SEAL

MISSISSIPPI OF WEST VIRGINIA  
 2 WORKING DAYS  
 BEFORE ALL FEES  
 800.245.4848

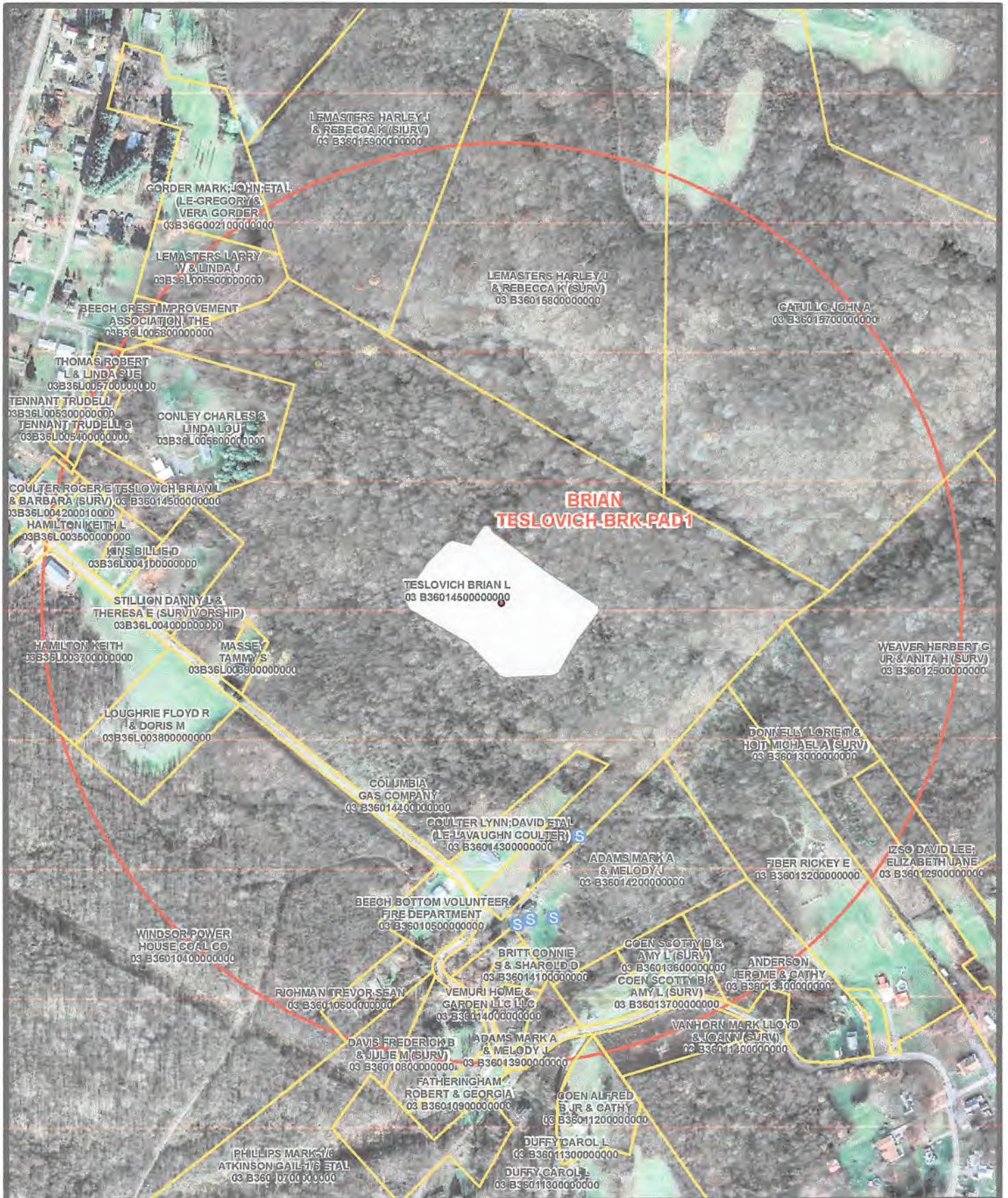
NO.	DATE	DESCRIPTION

THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF JHA COMPANIES



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WV Department of  
Environmental Protection



1 in = 417 ft

0 0.025 0.05 0.1 0.15 0.2

Coordinate System: NAD 1983 UTM Zone 17N  
Units: Meter

- Pond
- Spring
- Water Well
- 1500' Buffer

Coordinates: 40.216574, -80.633281

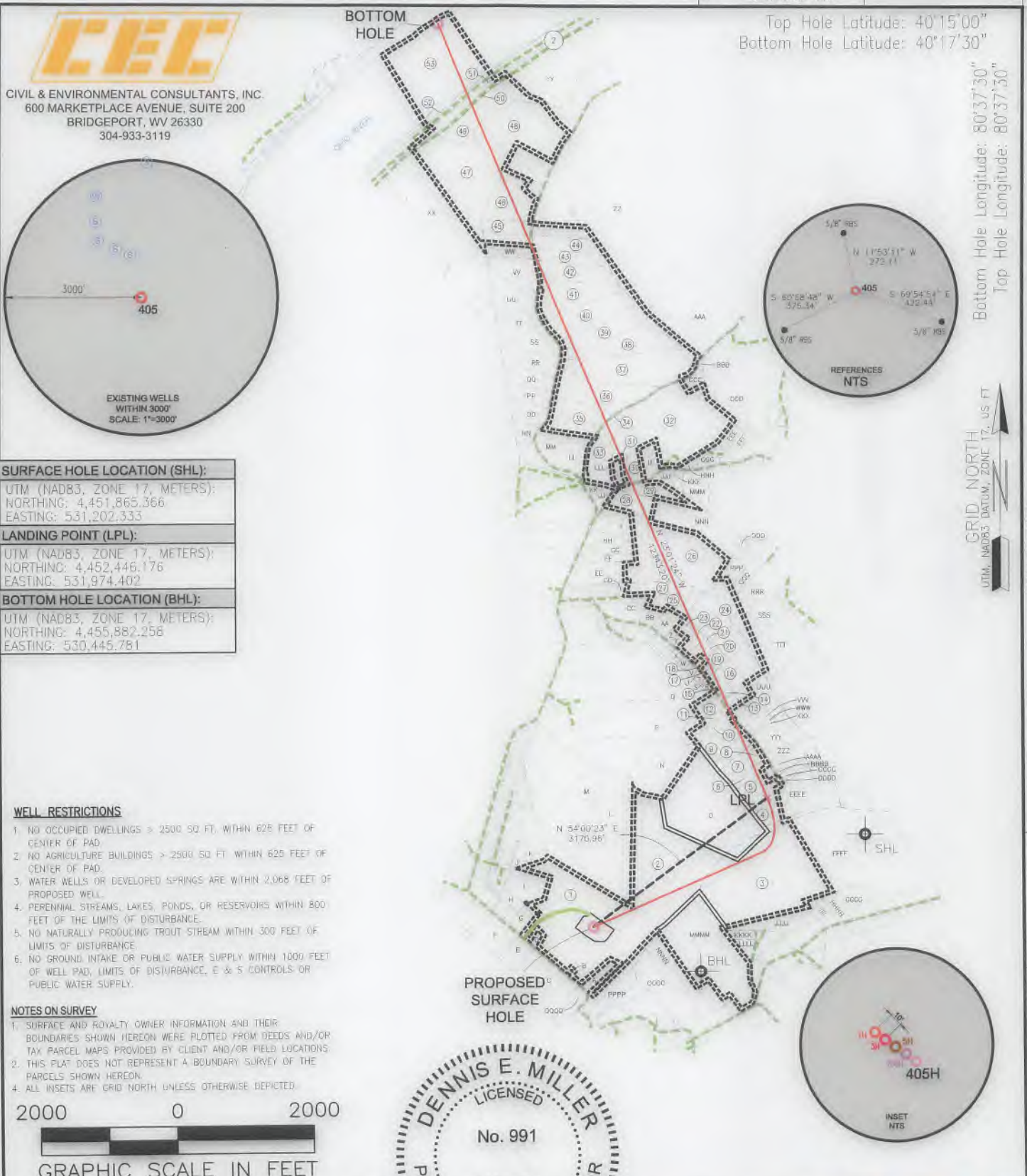
Water Purveyor Map  
Well Pad: Brian Teslovich  
County: BRK

**SWN**  $\frac{R^2}{A} \rightarrow V^+$   
Southwestern Energy®

Date: 8/29/2018

Author: willisb





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



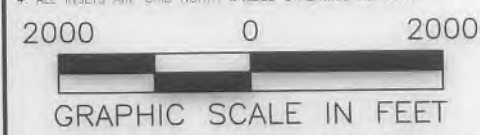
<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,451,865.366 EASTING: 531,202.333
<b>LANDING POINT (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,452,446.176 EASTING: 531,974.402
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,455,882.258 EASTING: 530,445.781

**WELL RESTRICTIONS**

1. NO OCCUPIED DWELLINGS > 2500 SQ. FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ. FT. WITHIN 625 FEET OF CENTER OF PAD.
3. WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 2,068 FEET OF PROPOSED WELL.
4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 800 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

**NOTES ON SURVEY**

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 991 *Dennis E. Miller*



COMPANY: **SWN** Production Company, LLC

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	OPERATOR'S WELL #: 405 API WELL #: 47 STATE 009 COUNTY PERMIT
	BRIAN TESLOVICH BRK H6A 00313	

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: GROG RUN ELEVATION: 1,149.0'

DISTRICT: BUFFALO DISTRICT COUNTY: BROOKE QUADRANGLE: TILTONSVILLE

SURFACE OWNER: BRIAN L. TESLOVICH ACREAGE: 50.911±

OIL & GAS ROYALTY OWNER: BRIAN L. TESLOVICH ACREAGE: 50.911±

DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION

CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5779 TVD 19,457.02 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY  
 ADDRESS: 1300 FORT PIERPONT DRIVE, STE 201 ADDRESS: 1300 FORT PIERPONT DRIVE, STE 201  
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

<b>LEGEND:</b>	— SURVEYED BOUNDARY — DRILLING UNIT - - - LEASE BOUNDARY — PROPOSED PATH	REVISIONS: DATE: 04-16-2020 DRAWN BY: K.E.S. SCALE: 1" = 2000' DRAWING NO: 175-057 WELL LOCATION PLAT
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CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
600 MARKETPLACE AVENUE, SUITE 200  
BRIDGEPORT, WV 26330  
304-933-3119

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	BRIAN L. TESLOVICH/SWN PRODUCTION COMPANY, LLC	03-836-145	50.911
2	JOHN A. CATULLO	03-836-157	39.50
3	LOUGHERY VICKIE C. & SHEENA R.	03-837-41	41.00
4	ROY BEAULAC	03-837-35	6.73
5	BEAULAC ROY R.	03-837-37	2.208
6	PRINGLE WM E. & JUNE	03-837-38	1.82
7	JOHNSON FRANK ET AL	03-837-40	4.61
8	LYNN JEFFREY H. & BRENDA S. (SURV)	03-837-39	0.95
9	WALNOHA CAROL	03-836-47	7.26
10	MILLER JOSEPH R.	03-836-48	8.15
11	PRINGLE WILLIAM C.	03-836-49	0.94
12	BIRKETT LARRY M. & BARBARA A.	03-836-50	2.00
13	HUFF JOHN W. & HELEN L.	03-836-45	2.00
14	HUFF JOHN W. & KEVIN S. (SURV)	03-836-43	0.45
15	HUFF JOHN W. & KEVIN N. (SURV)	03-836-42	0.46
16	ELLIOTT CHARLES D. & WANDA J. (SURV)	03-836-41	3.147
17	SMITH MICHAEL & PAULA (SURV)	03-836-40	0.61
18	HILL MATHEW	03-836-36	0.36
19	HILL MATHEW	03-836-37	1.01
20	HUFF KEVIN NORMAN	03-836-35.1	0.745
21	SANDRETH RICHARD E. & CONNIE J.	03-836-34	0.959
22	HUNT BERNARD ELDSSEN SR. & VIVIAN MARIE	03-836-33	2.00
23	HUFF JOHN WALTER & HELEN (SURV)	03-836-32	1.00
24	HUFF KEVIN M.	03-836-38	18.53
25	OBRIEN CARLOS J. & BILLIE D.	03-836-28	5.14
26	BLAKE LONNIE	03-831-89	29.15
27	OBRIEN CARLOS J. & BILLIE D.	03-836-25	4.32
28	BLAKE LONNIE	03-831-91	5.00
29	BLAKE LONNIE V.	03-831-94	4.22
30	HANCHER PAULA FAYE; NALE TIMOTHY (SURV)	03-831-108	2.00
31	NOEL TIMOTHY L. SR. & JANET L. (SURV)	03-831-107	0.96
32	STARKEY HAROLD	03-831-104	34.04
33	LOUGH WILLIAM & BEVERLY (SURV)	03-831-110	7.59
34	GREEN RUN ROAD		
35	ULLOM ANDREW L.A.; LYNN JEFFREY H. (SURV)	03-831-142	9.87
36	CLARK RANDOLPH L. & TAMMY R. (SURV)	03-831-141	12.65
37	CLARK RANDOLPH L. & TAMMY R. (SURV)	03-831-140	17.00
38	FRANCIS KEITH R.	03-831-139	11.99
39	SALEM THOMAS & PAULINE	03-831-138	7.73
40	SUMMERS RODGER & CONNIE	03-831-137	11.35
41	MCCLELLAND JERRY L. & ANGEL L. (SURV)	03-831-136	9.18
42	BARONID CURTIS R. & DONNA J. (SURV)	03-831-135	7.32
43	PARKS RONALD C.	03-831-134	8.15
44	STEWART ROBERT J. SR. & MARGARET E. (SURV)	03-831-133	7.88
45	STEWART ROBERT J. SR. & MARGARET E. (SURV)	03-831-132	7.39
46	WALNOHA RAY	03-831-115	9.27
47	WALNOHA RAY	03-831-05	26.00
48	COSS ROAD FARM, LLC	03-831-118	17.18
49	HFS LIMITED LIABILITY COMPANY	03-831-04	15.79
50	BROOKE CO. RT 2		
51	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	3-827-11	
52	HFS LIMITED LIABILITY COMPANY	3-831-03	15.79
53	STATE OF WEST VIRGINIA		

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	COULTER LYNN; DAVID ET AL	03-836-143	1.28
B	COLUMBIA GAS COMPANY	03-836-144	0.048
C	WINDSOR POWER HOUSE COAL COMPNY	03-836-104	87.28
D	TAMMY S. MASSEY	03-836L-39	0.5
E	LOUGHRIE FLOYD R. & DORIS M.	03-836L-38	2.80
F	KEITH HAMILTON	03-836L-37	5.10
G	STILLION DANNY L. & THERESA E	03-836L-40	2.00
H	BRIAN TESLOVICH	03-836L-69	50.911
I	CONLEY CHARLES & LINDA LOU	03-836L-56	5.209
J	BEECH CREST IMPROVEMENT	03-836L-58	0.52
K	LEMASTERS LARRY W. & LINDA J.	03-836L-59	2.31
L	LEMASTERS HARLEY J. & REBECCA K.	03-836-158	23.70
M	LEMASTERS HARLEY J. & REBECCA K.	03-836-159	13.00
N	MILLER JOSEPH R.	03-836-48	2.65
O	CUMMO TARQUINO; EMMA M; ANTONIO (SURV)	03-836-156	33.53
P	MCCONKEY TIMOTHY T. & CATHERINE (SURV)	03-836-153	18.38
Q	MILLER JOSEPH R.	03-836-48	2.65
R	ELLIOTT WILMA M.	03-836-52	0.321
S	ELLIOTT WILMA M.	03-836-53	0.14
T	ELLIOTT HAROLD EARL & LINDA JOAN (SURV)	03-836-54	0.328
U	ELLIOTT HAROLD E. & LINDA J.	03-836-55	0.172
V	ELLIOTT HAROLD E.	03-836-56	0.49
W	ELLIOTT SCOTT CORWIN & TRACEY LYNN (SURV)	03-836-58	0.47
X	BRENDA LONG	03-836-59	0.50
Y	WILLIAMS CHARLES & MARSHA (SURV)	03-836-27	1.75
Z	WILLIAMS THURMAN E. JR	03-836-29	1.75
AA	FULKS DONNA J.	03-836-63	0.25
BB	RANDOLPH & CAROLYN ROXBY	03-836-62	0.16
CC	ASHBROOK HARRY A.	03-836-67	0.60
DD	BRIAN JOHN & TIMOTHY LUCAS	03-836-24	0.478
EE	GRIZZLE HEYWARD H. & DORA G.	03-836-17	0.45
FF	HILDERBRAND ROBERT D. & CAROLYN (SURV)	03-831-86	6.07
GG	LONG JAMES J. & GERALDINE	03-831-87	2.30
HH	HUGGINS PERCY E. & DOROTHY I.	03-831-88	2.00
II	BLAKE LONNIE V.	03-831-90	5.00
JJ	THOMAS ROBERT LEE SR. & LINDA SUE	03-831-109	1.40
KK	THOMAS BETTY A.	03-831-85	0.94
LL	LYNN JEFFREY H. & BRENDA S. (SURV)	03-831-144	4.98
MM	LYNN JEFFREY H. & BRENDA S. (SURV)	03-831-143	3.41
NN	KYLE & KATLIN COOPER	03-831-122	
OO	LEMASTERS HARLEY J. & REBECCA K. (SURV)	03-831-123	2.00
PP	LEMASTERS HARLEY J.	03-831-124	3.44
QQ	DEBBIE STEWARD	03-831-125	3.09
RR	LEMASTERS HARLEY J.	03-831-126	3.50
SS	GRIMM JAMES W.	03-831-127	4.95
TT	GRIMM JAMES W. & ROBIN LYNN (SURV)	03-831-128	4.40
UU	GRIMM JAMES W.	03-831-129	4.71
VV	WEEKLY MARION; GROVES NANCY	03-831-130	6.08
WW	TORBETT WILLIAM E	03-831-131	5.31
XX	WALNOHA RAY	01-831-6	26.00
YY	HFS LIMITED LIABILITY COMPANY	03-831-4	15.79
ZZ	COSS ROAD FARM LLC	03-831-114	183.28
AAA	FRANCIS KEITH R.	03-831-113	26.33
BBB	GASVODA JOSEPH C. & KRISTIE J. (SURV)	03-831-112	0.17
CCC	GASVODA JOSEPH C. & KRISTIE J. (SURV)	03-831-111	0.94
DDD	MASLO FARMS LLC A PENNSYLVANIA LLC	03-832-20	78.86
EEE	IVERSON STEVEN S.; GARRISON DEBRA L.	03-831-101	2.09
FFF	IVERSON STEVEN & DEBRA (SURV)	03-831-102	1.82
GGG	STEMPLE CHERYLL L.	03-831-102	3.48
HHH	STEMPLE CHERYLL L.	03-831-103	1.21
III	CORY LARKINS	03-831-105	2.52
JJJ	LUDWIG ARCHIE VERNON	03-831-95	1.34
KKK	LUDWIG ARCHIE VERNON	03-831-96	1.20
LLL	DOYLE ROGER W. & HEATHER N. (SURV)	03-831-108	0.82
MMM	THOMAS STEVEN	03-831-97	4.83
NNN	BLAKE LONNIE & CARRIE R.	03-831-92	10.00
OOO	FIBER KEVIN R. & SHIRLEY W. (SURV)	03-831-93	1.00
PPP	BROWN MARILYN LEE	03-832-152	3.41
QQQ	BROWN MARILYN LEE	03-836-39	2.00
RRR	WEEKLEY KEVIN S.	03-832-151	10.20
SSS	SNYDER JOHN M. & ROBIN L.	03-837-8	4.00
TTT	PHILLIPS CHRISTINE	03-837-7	10.60
UUU	HUFF JOHN W. & HELEN L. (SURV)	03-837-24	8.00
VVV	MILLER DEAN & KELLI M. (SURV)	03-837-25	2.00
WWW	FONDER ROBERT W. & BRENDA L.	03-837-26	0.48
XXX	FONDER ROBERT W. & BRENDA L.	03-837-27	0.72
YYY	AARON & KATIE GIBSON	03-837-28.1	4.06
ZZZ	GIBSON JAMES W. & LISA (SURV)	03-837-28	4.06
AAAA	GIBSON JAMES W. & LISA (SURV)	03-837-29	2.00
BBBB	BURK THERESA	03-837-30	0.826
CCCC	WALNOHA RALPH & CAROL	03-837-32	1.00
DDDD	WALNOHA RALPH & CAROL J.	03-837-33	0.80
EEEE	WALNOHA RALPH JR & CAROL J.	03-837-34	6.787
FFFF	LOUGHERY VICKIE C. & SHEENA P. (SURV)	03-837-103	38.92
GGGG	SMITH HEIRS	03-837-105	3.89
HHHH	HUFF ROY & VIRGINIA C. (SURV)	03-837-106	2.00
IIII	LEWIS GEORGE M. & JUDY	03-837-107	2.00
JJJJ	LEWIS GEORGE M. & JUDY A. (SURV)	03-837-41.1	5.56
KKKK	HUFF JOHN JOSEPH & CHRISTINE C.	03-837-116	1.08
LLLL	NICHOLSON DANIEL A.	03-837-117	1.10
MMMM	LOUIS MILLER	03-836-125	29.47
NNNN	DONNELLY LORIE T. & HOIT MICHAEL S. (SURV)	03-836-130	5.75
OOOO	RICKEY E. FIBER	03-836-132	8.46
PPPP	ADAMS MARK A. & MELODY J.	03-836-142	6.21
QQQQ	BEECH BOTTOM VOLUNTEER FIRE DEPARTMENT	03-836-105	1.22

API WELL #: **47** STATE: **009** COUNTY: **00313** PERMIT: **H6A**

REVISIONS:	COMPANY:		
	OPERATOR'S	BRIAN TESLOVICH BRK	
	WELL #:	405	
	DISTRICT:	COUNTY:	STATE:
	BUFFALO DISTRICT	BROOKE	WV
			DATE: 04-16-2020
			DRAWN BY: K.E.S.
			SCALE: N/A
			DRAWING NO: 175-057
			WELL LOCATION PLAT 2



42900900333

WW-6A1  
(5/13)

Operator's Well No. Brian Teslovich BRK 405H

**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"

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Office of Oil and Gas

MAY 20 2020

WV Department of  
Environmental Protection

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

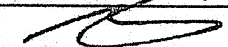
**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

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 Company, LLC

By: 

Its: Staff Landman



4700900913

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Office of Oil and Gas  
MAY 20 2020

WV Department of  
Environmental Protection

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  
EXHIBIT A  
Brian Teslovich BRK 405H  
Brooke County, West Virginia

Robert L. Miller, Jr., married, dealing herein with his separate property, represented herein by Attorney-in-Fact, Susanne M. Ross	SWN Production Company, LLC	18.00%	40/7
Dennis Stroh, married, dealing herein with his separate property	SWN Production Company, LLC	14.00%	40/177
Daniel Branch, a married man, dealing herein with his separate property	SWN Production Company, LLC	14.00%	40/641
Bobbete McCormick, married, dealing herein with her separate property	SWN Production Company, LLC	14.00%	41/202
Nancy Stratford, f/k/a Nancy Miller, widow, represented herein by Margaret Miller as Power of Attorney	SWN Production Company, LLC	14.00%	41/684
Peter Brade, married, dealing herein with his separate property	SWN Production Company, LLC	14.00%	41/690
Ray E. Lane, married, dealing herein with his separate property	SWN Production Company, LLC	14.00%	41/696
George Diehl II, married, dealing herein with his separate property	SWN Production Company, LLC	14.00%	41/770
James Branch, single	SWN Production Company, LLC	14.00%	41/782
James Diehl, single	SWN Production Company, LLC	14.00%	41/788
Janice Miller, single	SWN Production Company, LLC	14.00%	41/794
Karen Binswanger, married, dealing herein with her separate property	SWN Production Company, LLC	14.00%	42/19
Laurence B. Lane, married, dealing herein with his separate property	SWN Production Company, LLC	14.00%	42/43
Margaret Miller, single	SWN Production Company, LLC	14.00%	42/67
Marjorie Miller Winhoven, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	42/73
Eric Price, married, dealing herein with his separate property	SWN Production Company, LLC	18.00%	46/786
Frederick Anton Schneider, widow	SWN Production Company, LLC	18.00%	46/176
Christine Herriott, f/k/a Christine George, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	46/182
Susan Sprouse, f/k/a Susan Givens, married, dealing herein with her separate property	SWN Production Company, LLC	14.00%	46/296
Sherrel Novinger, f/k/a Sherrel Pierson, single	SWN Production Company, LLC	14.00%	46/483
Darrel Pierson, single	SWN Production Company, LLC	14.00%	46/495
Arjanta Scott, f/k/a Arjanta George, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	46/768
Jean Weaver, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	46/774
Lawrence S. George II, a/k/a Stephen George, married herein with his separate property	SWN Production Company, LLC	18.00%	47/30



4700900313

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  
 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

3	3-B37-41	Bonnie Walter	SWN Production Company, LLC	18.00%	47/48	RECEIVED Office of Oil and Gas MAY 20 2020 WV Department of Environmental Protection
		Benjamin Price, single	SWN Production Company, LLC	18.00%	47/607	
		Ernest N. Palmer, a widower, dealing herein with his separate property	SWN Production Company, LLC	18.00%	39/461	
		David Drummond, single	SWN Production Company, LLC	14.00%	50/721	
		Diane Carol Givens, married, dealing herein with her separate property	SWN Production Company, LLC	14.00%	50/733	
		Jessica Marie Jensen, f/k/a Jessica Givens, married, dealing herein with her separate property	SWN Production Company, LLC	14.00%	50/754	
		Jonathon Montgomery, single	SWN Production Company, LLC	14.00%	50/742	
		Sherril Lynn Hugic, a divorced woman	SWN Production Company, LLC	16.00%	48/706	
		Arthur D. Stoner aka Art Dwight Stoner, a divorced man	SWN Production Company, LLC	16.00%	48/770	
		Donald Geer and Dolores Ann Geer aka Dee Geer, husband and wife	SWN Production Company, LLC	16.00%	48/778	
4	3-B37-35	Pamela Sue Amadri, a divorced woman	SWN Production Company, LLC	16.00%	49/1	
		Scott G. Duncan and Heather S. Duncan, husband and wife	SWN Production Company, LLC	16.00%	49/141	
		Mark Bryan Duncan and Cynthia Elizabeth Duncan, husband and wife	SWN Production Company, LLC	16.00%	49/248	
		Andres Glassow and Karen S. Glassow, husband and wife	SWN Production Company, LLC	16.00%	49/300	
		Sean Timothy Duncan, a divorced man	SWN Production Company, LLC	16.00%	49/438	
		William H. M. Ryan	SWN Production Company, LLC	18.00%	57/466	
		SWN Production Company, LLC (Company owned minerals)			386/387	
		Jerome Williams	SWN Production Company, LLC	14.00%	53/368	
		Russell Greathouse & Linda Greathouse	Chesapeake Appalachia, LLC	18%	25/127	
			SWN Production Company, LLC		30/480	
4	3-B37-35	Robert L. Mozingo and Betty Lou Mozingo, husband and wife	Chesapeake Appalachia, L.L.C.	18%	29/455	
			SWN Production Company, LLC		31/228	
		Clarence Mozingo, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	18%	29/607	
			SWN Production Company, LLC		31/228	
		Thomas Otis Brown, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	18%	30/318	
			SWN Production Company, LLC		31/228	
		Fresh Oil Ministries	SWN Production Company, LLC	16%	39/69	
		Virginia L. Ewing, a single woman	SWN Production Company, LLC	18%	39/491	
		Alice Mozingo Clifton, widow	SWN Production Company, LLC	18%	39/522	
		John Steven Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	39/529	

EXHIBIT A

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 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

Sussan Kelly Vollbrecht, married, dealing herein with her separate property	SWN Production Company, LLC	18%	39/550
James Michael Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	39/558
Thomas Allan Robinson, single	SWN Production Company, LLC	18%	39/785
Harriet Mazingo Cummings, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/13
Joseph Izzo, single	SWN Production Company, LLC	18%	40/90
Anthony A. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/97
Albert O. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/104
Kathy Ziklo f/k/a Kathleen Izzo, widow	SWN Production Company, LLC	18%	40/111
Jack Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/183
Doris McCormick, f/k/a Doris Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/190
Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%	41/702
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736

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 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Theлма Dunn Wheeler, aka Theлма Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55

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 Brooke County, West Virginia

5	3-B37-37	Robert L. Mazingo and Betty Lou Mazingo, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	29/455 31/228	0%
		Alice Yvonne Janeshek Mieczkowski, a married woman, dealing in her separate property	SWN Production Company, LLC	14%	40/26	
		Joseph Janeshek, a married man	SWN Production Company, LLC	14%	40/32	
		Mary Catherine Janeshek Croce, single	SWN Production Company, LLC	14%	39/297	
		Chauncey T. Hall, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	40/20	
		Kevin Sarlo, married, dealing herein with his separate property	SWN Production Company, LLC	14%	42/477	
		Lora Mae Dunn Gurule, married, dealing herein with her separate property	SWN Production Company, LLC	14%	42/61	
		Susan Shamp, married, dealing herein with her separate property	SWN Production Company, LLC	14%	40/171	
		Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	14%	40/165	
		Susan Clark, single	SWN Production Company, LLC	14%	39/762	
		Lynn Oroian, single	SWN Production Company, LLC	14%	40/129	
		Linda Miller, widow	SWN Production Company, LLC	14%	40/135	
		Donald James Smith, married, dealing herein with his separate property	SWN Production Company, LLC	14%	40/141	
		James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	40/171	
		Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	40/165	
		Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425	
		Dorothy Dean, widow	SWN Production Company, LLC	14%	39/431	
		John R. Clark, a single man	SWN Production Company, LLC	14%	39/419	
		Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	14%	39/419	
		Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	47/131	
		Elwood McDougan, a widower	SWN Production Company, LLC	18%	47/233	
		Robert Calvin Mazingo, Jr., single	SWN Production Company, LLC	18%	39/413	
		Sharen Clark, single	SWN Production Company, LLC	18%	39/413	
		Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	39/413	
		Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42	

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Clarence Mozingo, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	29/607 31/228
Thomas Otis Brown, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	30/318 31/228
Fresh Oil Ministries	SWN Production Company, LLC	16%	39/69
Virginia L. Ewing, a single woman	SWN Production Company, LLC	18%	39/491
Alice Mazingo Clifton, widow	SWN Production Company, LLC	18%	39/522
John Steven Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	39/529
Sussan Kelly Vollbrecht, married, dealing herein with her separate property	SWN Production Company, LLC	18%	39/550
James Michael Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	39/558
Thomas Allan Robinson, single	SWN Production Company, LLC	18%	39/785
Harriet Mazingo Cummings, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/13
Joseph Izzo, single	SWN Production Company, LLC	18%	40/90
Anthony A. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/97
Albert O. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/104
Kathy Ziklo f/k/a Kathleen Izzo, widow	SWN Production Company, LLC	18%	40/111
Jack Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/183
Doris McCormick, f/k/a Doris Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/190
Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%	41/702
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290

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Brooke County, West Virginia

Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noath, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208

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Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrave, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mazingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413
Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419
Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425
James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/431
Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	14%	39/762
Susan Clark, single	SWN Production Company, LLC	14%	40/129
Lynn Oroian, single	SWN Production Company, LLC	14%	40/135
Linda Miller, widow	SWN Production Company, LLC	14%	40/141
Donald James Smith, married, dealing herein with his separate property	SWN Production Company, LLC	14%	40/165
Susan Shamp, married, dealing herein with her separate property	SWN Production Company, LLC	14%	40/171
Lora Mae Dunn Gurule, married, dealing herein with her separate property	SWN Production Company, LLC	14%	42/61
Kevin Sarlo, married, dealing herein with his separate property	SWN Production Company, LLC	14%	42/477



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Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84

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Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mozingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413
Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419
Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425
James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/431
Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	14%	39/762
Susan Clark, single	SWN Production Company, LLC	14%	40/129



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Jack Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/183
Doris McCormick, f/k/a Doris Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/190
Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%	41/702
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
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Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515



4700900813

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  
EXHIBIT A  
Brian Teslovich BRK 405H  
Brooke County, West Virginia

Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler			
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/147
Barbara Parrish, widow	SWN Production Company, LLC	18%	40/159
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/184
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/208
Megan McClain, single	SWN Production Company, LLC	18%	41/244
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/672
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	41/776
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/1
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	41/226
Elwood McDougan, a widower	SWN Production Company, LLC	18%	42/25
Robert Calvin Mazingo, Jr., single	SWN Production Company, LLC	18%	41/758
Sharen Clark, single	SWN Production Company, LLC	18%	46/489
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/36
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/42
John R. Clark, a single man	SWN Production Company, LLC	18%	47/131
Dorothy Dean, widow	SWN Production Company, LLC	14%	47/233
			39/413

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James Michael Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	39/558
Thomas Allan Robinson, single	SWN Production Company, LLC	18%	39/785
Harriet Moxingo Cummings, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/13
Joseph Izzo, single	SWN Production Company, LLC	18%	40/90
Anthony A. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/97
Albert O. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/104
Kathy Ziklo f/k/a Kathleen Izzo, widow	SWN Production Company, LLC	18%	40/111
Jack Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/183
Doris McCormick, f/k/a Doris Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/190
Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%	41/702
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407

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 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

4700900313

Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25

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 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

<p>Elwood McDougan, a widower          Robert Calvin Mozingo, Jr., single          Sharen Clark, single          Karen Perry, married, dealing herein with her separate property          Ronald T. Clark, a married man dealing in his separate property          John R. Clark, a single man          Dorothy Dean, widow          Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property</p>	<p>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</p>	<p>18%          18%          18%          18%          18%          18%          14%          14%</p>	<p>41/758          46/489          47/36          47/42          47/131          47/233          39/413</p>	<p>18%          18%          18%          18%          18%          18%          14%          14%</p>	<p>39/419          39/425          39/431          39/762          40/129          40/135          40/141          40/165          40/171          42/61          42/477          39/297          40/20          40/26          40/32</p>	<p>18%          18%          18%          18%          18%          18%          14%          14%          14%          14%          14%          14%          14%          14%          14%          14%          14%          18%          18%</p>	<p>SWN Production Company, LLC          Chesapeake Appalachia, L.L.C.          SWN Production Company, LLC</p>	<p>0%</p>
<p>Robert L. Mozingo and Betty Lou Mozingo, husband and wife</p>	<p>SWN Production Company, LLC</p>	<p>18%</p>	<p>29/455          31/228</p>	<p>18%</p>	<p>29/607          31/228</p>	<p>18%</p>	<p>Chesapeake Appalachia, L.L.C.          SWN Production Company, LLC</p>	<p>0%</p>
<p>Clarence Mozingo, a married man dealing in his sole and separate property</p>	<p>Chesapeake Appalachia, L.L.C.</p>	<p>18%</p>	<p>29/607          31/228</p>	<p>18%</p>	<p>29/607          31/228</p>	<p>18%</p>	<p>Chesapeake Appalachia, L.L.C.          SWN Production Company, LLC</p>	<p>0%</p>

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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  
 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

Thomas Otis Brown, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	30/318 31/228
Fresh Oil Ministries	SWN Production Company, LLC	16%	39/69
Virginia L. Ewing, a single woman	SWN Production Company, LLC	18%	39/491
Alice Mazingo Clifton, widow	SWN Production Company, LLC	18%	39/522
John Steven Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	39/529
Sussan Kelly Vollbrecht, married, dealing herein with her separate property	SWN Production Company, LLC	18%	39/550
James Michael Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	39/558
Thomas Allan Robinson, single	SWN Production Company, LLC	18%	39/785
Harriet Mazingo Cummings, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/13
Joseph Izzo, single	SWN Production Company, LLC	18%	40/90
Anthony A. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/97
Albert O. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/104
Kathy Ziklo f/k/a Kathleen Izzo, widow	SWN Production Company, LLC	18%	40/111
Jack Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/183
Doris McCormick, f/k/a Doris Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/190
Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%	41/702
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640

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 Brooke County, West Virginia

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Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672



470090031

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 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mazingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413
Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419
Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425
James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/431
Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	14%	39/762
Susan Clark, single	SWN Production Company, LLC	14%	40/129
Lynn Oroian, single	SWN Production Company, LLC	14%	40/135
Linda Miller, widow	SWN Production Company, LLC	14%	40/141
Donald James Smith, married, dealing herein with his separate property	SWN Production Company, LLC	14%	40/165
Susan Shamp, married, dealing herein with her separate property	SWN Production Company, LLC	14%	40/171
Lora Mae Dunn Gurule, married, dealing herein with her separate property	SWN Production Company, LLC	14%	42/61
Kevin Sarlo, married, dealing herein with his separate property	SWN Production Company, LLC	14%	42/477
Chauncey T. Hall, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/297
Mary Catherine Janeshke Croce, single	SWN Production Company, LLC	14%	40/20

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4700900818	SWN Production Company, LLC	18%	42/329
Debra Robinson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Theлма Dunn Wheeler, aka Theлма Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147

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4700900818	Shirley R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
	Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
	Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
	Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
	Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
	Megan McClain, single	SWN Production Company, LLC	18%	41/672
	Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
	John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
	Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
	Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
	Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
	Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
	Robert Calvin Mazingo, Jr., single	SWN Production Company, LLC	18%	46/489
	Sharen Clark, single	SWN Production Company, LLC	18%	47/36
	Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
	Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
	John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
	Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413
	Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419
	Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425
	James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/431
	Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	14%	39/762
	Susan Clark, single	SWN Production Company, LLC	14%	40/129
	Lynn Oroian, single	SWN Production Company, LLC	14%	40/135
	Linda Miller, widow	SWN Production Company, LLC	14%	40/141
	Donald James Smith, married, dealing herein with his separate property	SWN Production Company, LLC	14%	40/165





4700900813

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 Brooke County, West Virginia

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Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%	41/702
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779

4700900313

EXHIBIT A  
 attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WV-6A1, by SWN Production Company, LLC, as Operator  
 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

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Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mozingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413
Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419
Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425

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 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

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12	3-B36-50	James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/431
		Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	14%	39/762
		Susan Clark, single	SWN Production Company, LLC	14%	40/129
		Lynn Oroian, single	SWN Production Company, LLC	14%	40/135
		Linda Miller, widow	SWN Production Company, LLC	14%	40/141
		Donald James Smith, married, dealing herein with his separate property	SWN Production Company, LLC	14%	40/165
		Susan Shamp, married, dealing herein with her separate property	SWN Production Company, LLC	14%	40/171
		Lora Mae Dunn Gurule, married, dealing herein with her separate property	SWN Production Company, LLC	14%	42/61
		Kevin Sarlo, married, dealing herein with his separate property	SWN Production Company, LLC	14%	42/477
		Chauncey T. Hall, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/297
		Mary Catherine Janeshek Croce, single	SWN Production Company, LLC	14%	40/20
		Alice Yvonne Janeshek Mieczkowski, a married woman, dealing in her separate property	SWN Production Company, LLC	14%	40/26
		Joseph Janeshek, a married man	SWN Production Company, LLC	14%	40/32
		Robert L. Mozingo and Betty Lou Mozingo, husband and wife	SWN Production Company, LLC	14%	40/32
		Clarence Mozingo, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	29/455 31/228
		Thomas Otis Brown, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	29/607 31/228
		Fresh Oil Ministries	Chesapeake Appalachia, L.L.C.	18%	30/318
		Virginia L. Ewing, a single woman	SWN Production Company, LLC	16%	31/228
		Alice Mozingo Clifton, widow	SWN Production Company, LLC	18%	39/69
		John Steven Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	39/491
		Sussan Kelly Vollbrecht, married, dealing herein with her separate property	SWN Production Company, LLC	18%	39/522
		James Michael Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	39/529
		Thomas Allan Robinson, single	SWN Production Company, LLC	18%	39/550
		Harriet Mozingo Cummings, married, dealing herein with her separate property	SWN Production Company, LLC	18%	39/558
		Joseph Izzo, single	SWN Production Company, LLC	18%	39/785
					40/13
					40/90



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Brooke County, West Virginia

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Anthony A. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/97
Albert O. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/104
Kathy Ziklo f/k/a Kathleen Izzo, widow	SWN Production Company, LLC	18%	40/111
Jack Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/183
Doris McCormick, f/k/a Doris Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/190
Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%	41/702
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732

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Brian Teslovich BRK 405H  
Brooke County, West Virginia

Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Theima Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougall, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mazingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42

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 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

John Steven Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	39/529
Sussan Kelly Vollbrecht, married, dealing herein with her separate property	SWN Production Company, LLC	18%	39/550
James Michael Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	39/558
Thomas Allan Robinson, single	SWN Production Company, LLC	18%	39/785
Harriet Mozingo Cummings, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/13
Joseph Izzo, single	SWN Production Company, LLC	18%	40/90
Anthony A. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/97
Albert O. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/104
Kathy Ziklo f/k/a Kathleen Izzo, widow	SWN Production Company, LLC	18%	40/111
Jack Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/183
Doris McCormick, f/k/a Doris Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/190
Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%	41/702
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742

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 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing with separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Theima Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing with separate property	SWN Production Company, LLC	18%	42/1

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 Brooke County, West Virginia

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Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mozingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413
Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419
Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425
James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/431
Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	14%	39/762
Susan Clark, single	SWN Production Company, LLC	14%	40/129
Lynn Oroian, single	SWN Production Company, LLC	14%	40/135
Linda Miller, widow	SWN Production Company, LLC	14%	40/141
Donald James Smith, married, dealing herein with his separate property	SWN Production Company, LLC	14%	40/165
Susan Shamp, married, dealing herein with her separate property	SWN Production Company, LLC	14%	40/171
Lora Mae Dunn Gurule, married, dealing herein with her separate property	SWN Production Company, LLC	14%	42/61
Kevin Sarlo, married, dealing herein with his separate property	SWN Production Company, LLC	14%	42/477
Chauncey T. Hall, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/297
Mary Catherine Janeshek Croce, single	SWN Production Company, LLC	14%	40/20
Alice Yvonne Janeshek Mieczkowski, a married woman, dealing in her separate property	SWN Production Company, LLC	14%	40/26
Joseph Janeshek, a married man	SWN Production Company, LLC	14%	40/32

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 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

14 4700900313	3-B36-43	0%	18%	29/455 31/228	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	Robert L. Mozingo and Betty Lou Mozingo, husband and wife
			18%	29/607 31/228	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	Clarence Mozingo, a married man dealing in his sole and separate property
			18%	30/318 31/228	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	Thomas Otis Brown, a married man dealing in his sole and separate property
			16%	39/69	SWN Production Company, LLC	Fresh Oil Ministries
			18%	39/491	SWN Production Company, LLC	Virginia L. Ewing, a single woman
			18%	39/522	SWN Production Company, LLC	Alice Mozingo Clifton, widow
			18%	39/529	SWN Production Company, LLC	John Steven Robinson, married, dealing herein with his separate property
			18%	39/550	SWN Production Company, LLC	Sussan Kelly Vollbrecht, married, dealing herein with her separate property
			18%	39/558 39/785	SWN Production Company, LLC	James Michael Robinson, married, dealing herein with his separate property
			18%	40/13 40/90	SWN Production Company, LLC	Thomas Allan Robinson, single
			18%	40/97	SWN Production Company, LLC	Harriet Mozingo Cummings, married, dealing herein with her separate property
			18%	40/104 40/111	SWN Production Company, LLC	Joseph Izzo, single
			18%	40/183	SWN Production Company, LLC	Anthony A. Izzo, married, dealing herein with his separate property
			18%	40/190	SWN Production Company, LLC	Albert O. Izzo, married, dealing herein with his separate property
			18%	41/702	SWN Production Company, LLC	Kathy Ziklo f/k/a Kathleen Izzo, widow
			18%	41/744	SWN Production Company, LLC	Jack Keating, married, dealing herein with his separate property
			18%	41/751 42/37	SWN Production Company, LLC	Doris McCormick, f/k/a Doris Keating, married, dealing herein with her separate property
			18%	42/317	SWN Production Company, LLC	Robert E. Noah, married, dealing herein with his separate property
			18%	42/329	SWN Production Company, LLC	Jacqueline B. Johnson, married, dealing herein with her separate property
			18%		SWN Production Company, LLC	Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property
			18%		SWN Production Company, LLC	Kevin Noah, single
			18%		SWN Production Company, LLC	Larry Keating, married, dealing herein with his separate property
			18%		SWN Production Company, LLC	Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property

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 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property)	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184

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Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mazingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413
Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419
Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425
James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/431
Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	14%	39/762
Susan Clark, single	SWN Production Company, LLC	14%	40/129
Lynn Oroian, single	SWN Production Company, LLC	14%	40/135
Linda Miller, widow	SWN Production Company, LLC	14%	40/141
Donald James Smith, married, dealing herein with his separate property	SWN Production Company, LLC	14%	40/165
Susan Shamp, married, dealing herein with her separate property	SWN Production Company, LLC	14%	40/171



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EXHIBIT A  
Brian Teslovich BRK 405H  
Brooke County, West Virginia

Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60

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EXHIBIT A  
Brian Teslovich BRK 405H  
Brooke County, West Virginia

Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Theima Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mazingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413
Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419
Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425
James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/431

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 EXHIBIT A  
 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

<p>RECEIVED        Office of Oil and Gas        MAY 20 2020        WV Department of        Environmental Protection</p>	<p>SWN Production Company, LLC 14%          Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property 39/762          Susan Clark, single 14%          Lynn Oroian, single 14%          Linda Miller, widow 14%          Donald James Smith, married, dealing herein with his separate property 14%          Susan Shamp, married, dealing herein with her separate property 14%          Lora Mae Dunn Gurule, married, dealing herein with her separate property 14%          Kevin Sarlo, married, dealing herein with his separate property 14%          Chauncey T. Hall, a married man, dealing herein with his separate property 14%          Mary Catherine Janeshke Croce, single 14%          Alice Yvonne Janeshke Mieczkowski, a married woman, dealing in her separate property 40/26          Joseph Janeshke, a married man 40/32          Robert L. Mozingo and Betty Lou Mazingo, husband and wife 18%          Clarence Mazingo, a married man dealing in his sole and separate property 18%          Thomas Otis Brown, a married man dealing in his sole and separate property 18%          Fresh Oil Ministries 16%          Virginia L. Ewing, a single woman 18%          Alice Mazingo Clifton, widow 18%          John Steven Robinson, married, dealing herein with his separate property 18%          Sussan Kelly Vollbrecht, married, dealing herein with her separate property 18%          James Michael Robinson, married, dealing herein with his separate property 18%          Thomas Allan Robinson, single 18%          Harriet Mazingo Cummings, married, dealing herein with her separate property 18%          Joseph Izzo, single 18%          Anthony A. Izzo, married, dealing herein with his separate property 18%</p>	<p>0%</p>	<p>39/762          40/129          40/135          40/141          40/165          40/171          42/61          42/477          39/297          40/20          40/26          40/32          29/455          31/228          29/607          31/228          30/318          31/228          39/69          39/491          39/522          39/529          39/550          39/558          39/785          40/13          40/90          40/97</p>
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Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A.1, by SWN Production Company, LLC, as Operator  
 EXHIBIT A  
 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

4700900818

Albert O. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/104
Kathy Ziklo f/k/a Kathleen Izzo, widow	SWN Production Company, LLC	18%	40/111
Jack Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/183
Doris McCormick, f/k/a Doris Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/190
Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%	41/702
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634

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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  
 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mazingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233

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EXHIBIT A

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Brian Teslovich BRK 405H  
Brooke County, West Virginia

Susan Kelly Vollbrecht, married, dealing herein with her separate property	SWN Production Company, LLC	18%	39/550
James Michael Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	39/558
Thomas Allan Robinson, single	SWN Production Company, LLC	18%	39/785
Harriet Mazingo Cummings, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/13
Joseph Izzo, single	SWN Production Company, LLC	18%	40/90
Anthony A. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/97
Albert O. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/104
Kathy Ziklo f/k/a Kathleen Izzo, widow	SWN Production Company, LLC	18%	40/111
Jack Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/183
Doris McCormick, f/k/a Doris Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/190
Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%	41/702
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736

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Brian Teslovich BRK 405H  
Brooke County, West Virginia

Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55

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Brooke County, West Virginia

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Clarence Mazingo, a married man dealing in his sole and separate property	18%	29/607	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC
Thomas Otis Brown, a married man dealing in his sole and separate property	18%	31/228	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC
Fresh Oil Ministries	16%	30/318	SWN Production Company, LLC
Virginia L. Ewing, a single woman	18%	31/228	SWN Production Company, LLC
Alice Mazingo Clifton, widow	18%	39/69	SWN Production Company, LLC
John Steven Robinson, married, dealing herein with his separate property	18%	39/491	SWN Production Company, LLC
Susan Kelly Vollbrecht, married, dealing herein with her separate property	18%	39/522	SWN Production Company, LLC
James Michael Robinson, married, dealing herein with his separate property	18%	39/529	SWN Production Company, LLC
Thomas Allan Robinson, single	18%	39/550	SWN Production Company, LLC
Harriet Mazingo Cummings, married, dealing herein with her separate property	18%	39/558	SWN Production Company, LLC
Joseph Izzo, single	18%	39/785	SWN Production Company, LLC
Anthony A. Izzo, married, dealing herein with his separate property	18%	40/13	SWN Production Company, LLC
Albert O. Izzo, married, dealing herein with his separate property	18%	40/90	SWN Production Company, LLC
Kathy Ziklo f/k/a Kathleen Izzo, widow	18%	40/97	SWN Production Company, LLC
Jack Keating, married, dealing herein with his separate property	18%	40/104	SWN Production Company, LLC
Doris McCormick, f/k/a Doris Keating, married, dealing herein with her separate property	18%	40/111	SWN Production Company, LLC
Robert E. Noah, married, dealing herein with his separate property	18%	40/183	SWN Production Company, LLC
Jacqueline B. Johnson, married, dealing herein with her separate property	18%	40/190	SWN Production Company, LLC
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	18%	41/702	SWN Production Company, LLC
Kevin Noah, single	18%	41/744	SWN Production Company, LLC
Larry Keating, married, dealing herein with his separate property	18%	41/751	SWN Production Company, LLC
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	18%	42/37	SWN Production Company, LLC
William Willard Keating, married, dealing herein with his separate property	18%	42/317	SWN Production Company, LLC
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	18%	42/329	SWN Production Company, LLC
	18%	42/483	SWN Production Company, LLC
	18%	42/290	SWN Production Company, LLC

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Brian Teslovich BRK 405H  
Brooke County, West Virginia

Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
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Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208

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 Environmental Protection

Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mazingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413
Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	
Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419
James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/425
Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	14%	39/431
Susan Clark, single	SWN Production Company, LLC	14%	
Lynn Oroian, single	SWN Production Company, LLC	14%	39/762
Linda Miller, widow	SWN Production Company, LLC	14%	40/129
Donald James Smith, married, dealing herein with his separate property	SWN Production Company, LLC	14%	40/135
Susan Shamp, married, dealing herein with her separate property	SWN Production Company, LLC	14%	40/141
Lora Mae Dunn Gurule, married, dealing herein with her separate property	SWN Production Company, LLC	14%	40/165
Kevin Sarlo, married, dealing herein with his separate property	SWN Production Company, LLC	14%	40/171
			42/61
			42/477





## 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

Brian Teslovich BRK 405H  
Brooke County, West Virginia

Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84

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 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

Theelma Dunn Wheeler, aka Theelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mozingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413
Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419
Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425
James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/431
Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	14%	39/762
Susan Clark, single	SWN Production Company, LLC	14%	40/129

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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  
EXHIBIT A  
Brian Teslovich BRK 405H  
Brooke County, West Virginia

Jack Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/183
Doris McCormick, f/k/a Doris Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/190
Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%	41/702
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515

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Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mozingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413

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Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419	
Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425	
James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/431	
Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	14%	39/762	
Susan Clark, single	SWN Production Company, LLC	14%	40/129	
Lynn Oroian, single	SWN Production Company, LLC	14%	40/135	
Linda Miller, widow	SWN Production Company, LLC	14%	40/141	
Donald James Smith, married, dealing herein with his separate property	SWN Production Company, LLC	14%	40/165	
Susan Shamp, married, dealing herein with her separate property	SWN Production Company, LLC	14%	40/171	
Lora Mae Dunn Gurdle, married, dealing herein with her separate property	SWN Production Company, LLC	14%	42/61	
Kevin Sarfo, married, dealing herein with his separate property	SWN Production Company, LLC	14%	42/477	
Chauncey T. Hall, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/297	
Mary Catherine Janeshk Croce, single	SWN Production Company, LLC	14%	40/20	
Alice Yvonne Janeshk Mieczkowski, a married woman, dealing in her separate property	SWN Production Company, LLC	14%	40/26	
Joseph Janeshk, a married man	SWN Production Company, LLC	14%	40/32	
Robert L. Mozingo and Betty Lou Mozingo, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	29/455 31/228	0%
Clarence Mazingo, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	29/607 31/228	
Thomas Otis Brown, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	30/318 31/228	
Fresh Oil Ministries	SWN Production Company, LLC	16%	39/69	
Virginia L. Ewing, a single woman	SWN Production Company, LLC	18%	39/491	
Alice Mazingo Clifton, widow	SWN Production Company, LLC	18%	39/522	
John Steven Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	39/529	
Susan Kelly Vollbrecht, married, dealing herein with her separate property	SWN Production Company, LLC	18%	39/550	

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James Michael Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	39/558
Thomas Allan Robinson, single	SWN Production Company, LLC	18%	39/785
Harriet Mozingo Cummings, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/13
Joseph Izzo, single	SWN Production Company, LLC	18%	40/90
Anthony A. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/97
Albert O. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/104
Kathy Ziklo f/k/a Kathleen Izzo, widow	SWN Production Company, LLC	18%	40/111
Jack Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/183
Doris McCormick, f/k/a Doris Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	40/190
Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%	41/702
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407

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Brooke County, West Virginia

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Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25

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	Elwood McDougan, a widower	SWN Production Company, LLC	41/758	
	Robert Calvin Mazingo, Jr., single	SWN Production Company, LLC	46/489	
	Sharen Clark, single	SWN Production Company, LLC	47/36	
	Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	47/42	
	Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	47/131	
	John R. Clark, a single man	SWN Production Company, LLC	47/233	
	Dorothy Dean, widow	SWN Production Company, LLC	39/413	
	Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	39/419	
	Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	39/425	
	James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	39/431	
	Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	39/762	
	Susan Clark, single	SWN Production Company, LLC	40/129	
	Lynn Orlan, single	SWN Production Company, LLC	40/135	
	Linda Miller, widow	SWN Production Company, LLC	40/141	
	Donald James Smith, married, dealing herein with his separate property	SWN Production Company, LLC	40/165	
	Susan Shamp, married, dealing herein with her separate property	SWN Production Company, LLC	40/171	
	Lora Mae Dunn Gurnule, married, dealing herein with her separate property	SWN Production Company, LLC	42/61	
	Kevin Sarlo, married, dealing herein with his separate property	SWN Production Company, LLC	42/477	
	Chauncey T. Hall, a married man, dealing herein with his separate property	SWN Production Company, LLC	39/297	
	Mary Catherine Janeshk Croce, single	SWN Production Company, LLC	40/20	
	Alice Yvonne Janeshk Mieczkowski, a married woman, dealing in her separate property	SWN Production Company, LLC	40/26	
	Joseph Janeshk, a married man	SWN Production Company, LLC	40/32	
22	3-836-33 Robert L. Mazingo and Betty Lou Mazingo, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	29/455 31/228	0%
	Clarence Mazingo, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	29/607 31/228	

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Brian Testovich BRK 405H  
 Brooke County, West Virginia

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Thomas Otis Brown, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	30/318
Fresh Oil Ministries	SWN Production Company, LLC	31/228
Virginia L. Ewing, a single woman	SWN Production Company, LLC	39/69
Alice Mazingo Clifton, widow	SWN Production Company, LLC	39/491
John Steven Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	39/522
Sussan Kelly Vollbrecht, married, dealing herein with her separate property	SWN Production Company, LLC	39/529
James Michael Robinson, married, dealing herein with his separate property	SWN Production Company, LLC	39/550
Thomas Allan Robinson, single	SWN Production Company, LLC	39/558
Harriet Mazingo Cummings, married, dealing herein with her separate property	SWN Production Company, LLC	39/785
Joseph Izzo, single	SWN Production Company, LLC	40/13
Anthony A. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	40/90
Albert O. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	40/97
Kathy Ziklo f/k/a Kathleen Izzo, widow	SWN Production Company, LLC	40/104
Jack Keating, married, dealing herein with his separate property	SWN Production Company, LLC	40/111
	SWN Production Company, LLC	40/183
Doris McCormick, f/k/a Doris Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%
Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%
Kevin Noah, single	SWN Production Company, LLC	18%
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%
	SWN Production Company, LLC	18%
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%
Ashley Anderson, single	SWN Production Company, LLC	18%
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%

EXHIBIT A

Brian Teslovich BRK 405H  
Brooke County, West Virginia

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Gail Noah, single	SWN Production Company, LLC	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	40/48
Angela Anderson, divorced	SWN Production Company, LLC	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	40/66
Sara Stafford, a widow	SWN Production Company, LLC	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	40/159
Barbara Parrish, widow	SWN Production Company, LLC	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	41/244
Megan McClain, single	SWN Production Company, LLC	41/672



EXHIBIT A  
 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

4700900313

Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mozingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413
Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419
Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425
James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/431
Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	14%	39/762
Susan Clark, single	SWN Production Company, LLC	14%	40/129
Lynn Oroian, single	SWN Production Company, LLC	14%	40/135
Linda Miller, widow	SWN Production Company, LLC	14%	40/141
Donald James Smith, married, dealing herein with his separate property	SWN Production Company, LLC	14%	40/165
Susan Shamp, married, dealing herein with her separate property	SWN Production Company, LLC	14%	40/171
Lora Mae Dunn Gurule, married, dealing herein with her separate property	SWN Production Company, LLC	14%	42/61
Kevin Sarfo, married, dealing herein with his separate property	SWN Production Company, LLC	14%	42/477
Chauncey T. Hall, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/297
Mary Catherine Janeshk Croce, single	SWN Production Company, LLC	14%	40/20

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EXHIBIT A  
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 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

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Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147

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EXHIBIT A

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Brian Testovich BRK 405H  
Brooke County, West Virginia

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Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mozingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413
Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419
Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425
James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/431
Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	14%	39/762
Susan Clark, single	SWN Production Company, LLC	14%	40/129
Lynn Orolian, single	SWN Production Company, LLC	14%	40/135
Linda Miller, widow	SWN Production Company, LLC	14%	40/141
Donald James Smith, married, dealing herein with his separate property	SWN Production Company, LLC	14%	40/165



4700900323

EXHIBIT A

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Brian Teslovich BRK 405H  
Brooke County, West Virginia

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Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%	41/702
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michrael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290
Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779



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Brian Teslovich BRK 405H  
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Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mozingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413
Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419
Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425



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EXHIBIT A

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Anthony A. Izzo, married, dealing herein with his separate property	SWN Production Company, LLC	18%	40/97
separate property	SWN Production Company, LLC	18%	40/104
Kathy Ziklo f/k/a Kathleen Izzo, widow	SWN Production Company, LLC	18%	40/111
separate property	SWN Production Company, LLC	18%	40/183
dealing herein with her separate property	SWN Production Company, LLC	18%	40/190
Robert E. Noah, married, dealing herein with his separate property	SWN Production Company, LLC	18%	41/702
Jacqueline B. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/744
Jill Hoover, f/k/a Jill Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	41/751
Kevin Noah, single	SWN Production Company, LLC	18%	42/37
Larry Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/317
Debra Jean Dawson f/k/a Debra Robinson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/329
William Willard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/483
Paula Seckman, f/k/a (Paula Keating, married, dealing herein with her separate property	SWN Production Company, LLC	18%	42/290
Ashley Anderson, single	SWN Production Company, LLC	18%	42/497
Richard Keating, married, dealing herein with his separate property	SWN Production Company, LLC	18%	42/640
Gail Noah, single	SWN Production Company, LLC	18%	43/166
Bruce Anderson, married, dealing herein with his separate property	SWN Production Company, LLC	18%	47/410
Carolyn J. Johnson, married, dealing herein with her separate property	SWN Production Company, LLC	18%	45/742
John W. Johnson, Jr., married, dealing herein with his separate property	SWN Production Company, LLC	18%	45/736
Virginia C. Michael, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	38/47
Evelyn Pasco, a widow	SWN Production Company, LLC	18%	39/407
Diana Smyth, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/232
Donald Dalton, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/238
Thomas Clark, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/732
Joan Giannini, by her attorney in fact Lisa Giannini	SWN Production Company, LLC	18%	42/634
Harold Rex Strawn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	46/290

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Brooke County, West Virginia

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Shirley Ann Dunn Wheeler, a widow	SWN Production Company, LLC	18%	39/515
Ruth Elaine Rogerson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/584
Karen Kim, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	39/779
Bruce Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/48
Angela Anderson, divorced	SWN Production Company, LLC	18%	40/60
Craig Dunn, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	40/66
Sara Stafford, a widow	SWN Production Company, LLC	18%	40/84
Thelma Dunn Wheeler, aka Thelma Dunn Wheeler, a single woman, represented herein by her attorney in fact, Dennis J. Wheeler	SWN Production Company, LLC	18%	40/147
Kimberly R. Jackson, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	40/159
Barbara Parrish, widow	SWN Production Company, LLC	18%	41/184
Becky Loewe, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/190
Candice Owens, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	41/208
Donald Martin, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/244
Megan McClain, single	SWN Production Company, LLC	18%	41/672
Gerald McClain, a married man, dealing herein with his separate property	SWN Production Company, LLC	18%	41/776
John Mossgrove, a married man, dealing herein with separate property	SWN Production Company, LLC	18%	42/1
Leslie C. Hildebrand, a married woman, dealing herein with her separate property	SWN Production Company, LLC	18%	42/55
Cindy L. Rasmussen, dealing herein with her separate property	SWN Production Company, LLC	18%	41/226
Katherine A. Kemper, aka Katherine Benzo Kemper, a widowed woman	SWN Production Company, LLC	18%	42/25
Elwood McDougan, a widower	SWN Production Company, LLC	18%	41/758
Robert Calvin Mazingo, Jr., single	SWN Production Company, LLC	18%	46/489
Sharen Clark, single	SWN Production Company, LLC	18%	47/36
Karen Perry, married, dealing herein with her separate property	SWN Production Company, LLC	18%	47/42
Ronald T. Clark, a married man dealing in his separate property	SWN Production Company, LLC	18%	47/131
John R. Clark, a single man	SWN Production Company, LLC	18%	47/233
Dorothy Dean, widow	SWN Production Company, LLC	14%	39/413

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	Stephanie J. Blundon, f/k/a Stephanie Piccirillo, a married woman, dealing herein with her separate property	SWN Production Company, LLC	14%	39/419	
	Christine Ballato, f/k/a Christine Little, divorced, dealing herein with her separate property	SWN Production Company, LLC	14%	39/425	
	James R. Piccirillo, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/431	
	Deborah McGrath, f/k/a Deborah Little, married, dealing herein with her separate property	SWN Production Company, LLC	14%	39/762	
	Susan Clark, single	SWN Production Company, LLC	14%	40/129	
	Lynn Oroian, single	SWN Production Company, LLC	14%	40/135	
	Linda Miller, widow	SWN Production Company, LLC	14%	40/141	
	Donald James Smith, married, dealing herein with his separate property	SWN Production Company, LLC	14%	40/165	
	Susan Shamp, married, dealing herein with her separate property	SWN Production Company, LLC	14%	40/171	
	Lora Mae Dunn Gurule, married, dealing herein with her separate property	SWN Production Company, LLC	14%	42/61	
	Kevin Sarlo, married, dealing herein with his separate property	SWN Production Company, LLC	14%	42/477	
	Chauncey T. Hall, a married man, dealing herein with his separate property	SWN Production Company, LLC	14%	39/297	
	Mary Catherine Janeshek Croce, single	SWN Production Company, LLC	14%	40/20	
	Alice Yvonne Janeshek Mieczkowski, a married woman, dealing in her separate property	SWN Production Company, LLC	14%	40/26	
	Joseph Janeshek, a married man	SWN Production Company, LLC	14%	40/32	
26	The Smithfield Evangelical Friends Church The Smithfield Presbyterian Church Lonnie V. Blake and Carrie Roberta Blake, husband and wife	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	18% 18% 18%	42/457 42/462 36/601	0%
27	Carlos J. O'Brien and Billie D. O'Brien, husband and wife	SWN Production Company, LLC	18%	37/778	0%
28	Lonnie V. Blake and Carrie Roberta Blake, husband and wife	SWN Production Company, LLC	18%	36/601	0%
29	Lonnie V. Blake and Carrie Roberta Blake, husband and wife	SWN Production Company, LLC	18%	36/601	0%
30	Paula Faye Hancher, a single woman and Timothy A. Nale, a single man	SWN Production Company, LLC	18%	20/768	0%
31	Timothy L. Noel, Sr. and Janet L. Noel, his wife	SWN Production Company, LLC	18%	21/483	0%
32	Harold Starkey and Bonnie J. Starkey, husband and wife	Range Resources - Appalachia, LLC Chesapeake Appalachia, L.L.C.	13%	10/295 10/552	0%

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**4700900313**  
 Brian Teslovich BRK 405H  
 Brooke County, West Virginia

EXHIBIT A

33	3-B31-110	William Lough and Beverly Lough, husband and wife	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	18%	30/480	22/221	0%
34	3-B31-142	Green Run Road Gary W. Early, a single man and Judith K. Anderson, a single woman	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	18%	12/252	30/480	0%
35	3-B31-141	Judith K. Anderson	SWN Production Company, LLC	Great Lakes Energy Partners, L.L.C.	13%	9/879	20/733	0%
36	3-B31-140	Randolph L. Clark and Tammy R. Clark, husband and wife	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	18%	19/68	30/480	0%
37	3-B31-139	Keith R. Francis, single	SWN Production Company, LLC	Range Resources - Appalachia, LLC	13%	10/286	10/552	0%
38	3-B31-138	Thomas Salem and Pauline Salem, husband and wife	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	18%	18/519	30/480	0%
39	3-B31-137	Rodger Summers and Connie Summers, husband and wife	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	14%	24/668	30/480	0%
40	3-B31-136	Jerry L. McClelland, Jr. and Angel L. McClelland, husband and wife	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	18%	23/36	30/480	0%
41	3-B31-135	SWN Production Company, LLC	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	18%	22/592	30/480	0%
42	3-B31-134	Ronald C. Parks, a single man	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	18%	12/115	30/480	0%
43	3-B31-133	Chad D. Lizou, a single man	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	18%	11/727	30/480	0%
44	3-B31-132	Chad D. Lizou, a single man	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	18%	25/306	30/480	0%
45	3-B31-115	Linda Reeves Greathouse and Russell Greathouse, wife and husband	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	18%	34/473	25/306	0%
46	3-B31-5	Ray Walnoha Jr., single	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	18%	15/394	30/480	0%
47	3-B31-118	Linda Reeves Greathouse and Russell Greathouse, wife and husband	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	18%	30/480	30/480	0%
48	3-B31-4	HFS Limited Liability Company	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	18%	15/394	30/480	0%
49	Brooke Co. RT 2	ROW Only			0%			0%

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

Brian Teslovich BRK 405H  
Brooke County, West Virginia

4700900318

EXHIBIT A

51	3-B27-11	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20%	53/18	0%
52	3-B31-3	HFS Limited Liability Company	Chesapeake Appalachia, LLC SWN Production Company, LLC	18%	15/394 30/480	0%
53	Ohio River	State of West Virginia Department of Commerce, Division of Natural Resources	SWN Production Company, LLC	20%	55/479	0%

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4700900313

April 22, 2020

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

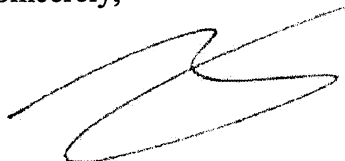
**RE:** SWN's proposed New Well: Brian Teslovich BRK 405H in Brooke County, West Virginia, Drilling under 4576 WV-2, McCord Hill Road, Green run Road, and Pettit Heights Rd.

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, McCord Hill Road, Green run Road, and Pettit Heights Rd. 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**

Date of Notice Certification: 5/18/20

API No. 47- 009 -  
Operator's Well No. Brian Teslovich BRK 405H  
Well Pad Name: Brian Teslovich BRK

**Notice has been given:**

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>531,202.333</u>	RECEIVED Office of Oil and Gas MAY 20 2020
County:	<u>009- Brooke</u>		Northing:	<u>4,451,865.366</u>	
District:	<u>Buffalo</u>	Public Road Access:		<u>McCord Hill Road</u>	WV Department of Environmental Protection
Quadrangle:	<u>Tiltonsville</u>	Generally used farm name:		<u>Brian Teslovich</u>	
Watershed:	<u>Grog Run</u>				

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  *PLEASE CHECK ALL THAT APPLY  <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED  <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION  <input checked="" type="checkbox"/> 5. PUBLIC NOTICE  <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION	<b>OOG OFFICE USE ONLY</b>  <input type="checkbox"/> RECEIVED/ NOT REQUIRED  <input type="checkbox"/> RECEIVED  <input type="checkbox"/> RECEIVED/ NOT REQUIRED  <input type="checkbox"/> RECEIVED  <input type="checkbox"/> RECEIVED  <input type="checkbox"/> RECEIVED
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**Required Attachments:**

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

**Certification of Notice is hereby given:**

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

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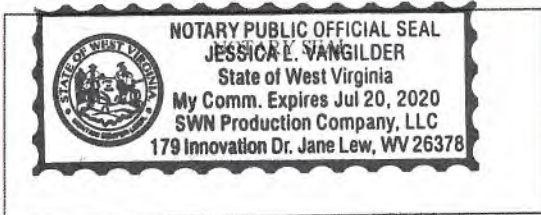
Well Operator: SWN Production Co., LLC  
By: Brittany Woody  
Its: Senior Regulatory Analyst  
Telephone: 304-884-1610

*Brittany Woody*

Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Facsimile: 304-884-1690  
Email: Brittany\_Woody@swn.com

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WV Department of  
Environmental Protection



Subscribed and sworn before me this 17<sup>th</sup> day of April, 2020.  
Jessica L. Vangilder Notary Public  
My Commission Expires 7-20-20

**Oil and Gas Privacy Notice:**

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



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 Notice: 5/18/20 Date Permit Application Filed: 5/18/20  
Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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**Delivery method pursuant to West Virginia Code § 22-6A-10(b)**

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice  WSSP Notice  E&S Plan Notice  Well Plat Notice is hereby provided to:

SURFACE OWNER(s)  
Name: Brian L. Teslovich  
Address: 211 Sunset Drive  
Belle Vernon, PA 15012  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
Name: Windsor Coal Company  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: See Attachment 13A  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

4700900313

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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**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, that the Office of the Gas permit decision and a list of persons qualified to test water.

MAY 20 2020

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.

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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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Location Restrictions**

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

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.

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

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

**Written Comment:**

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

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

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



**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.

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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.

WW-6A  
(8-13)

API NO. 47-009 **4700900313**  
OPERATOR WELL NO. Brian Teslovich BRK 205H  
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

*Brittany Woody*

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

**Oil and Gas Privacy Notice:**

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



Subscribed and sworn before me this 17<sup>th</sup> day of April 2020

Jessica L. Vangilder Notary Public

My Commission Expires 7-20-20

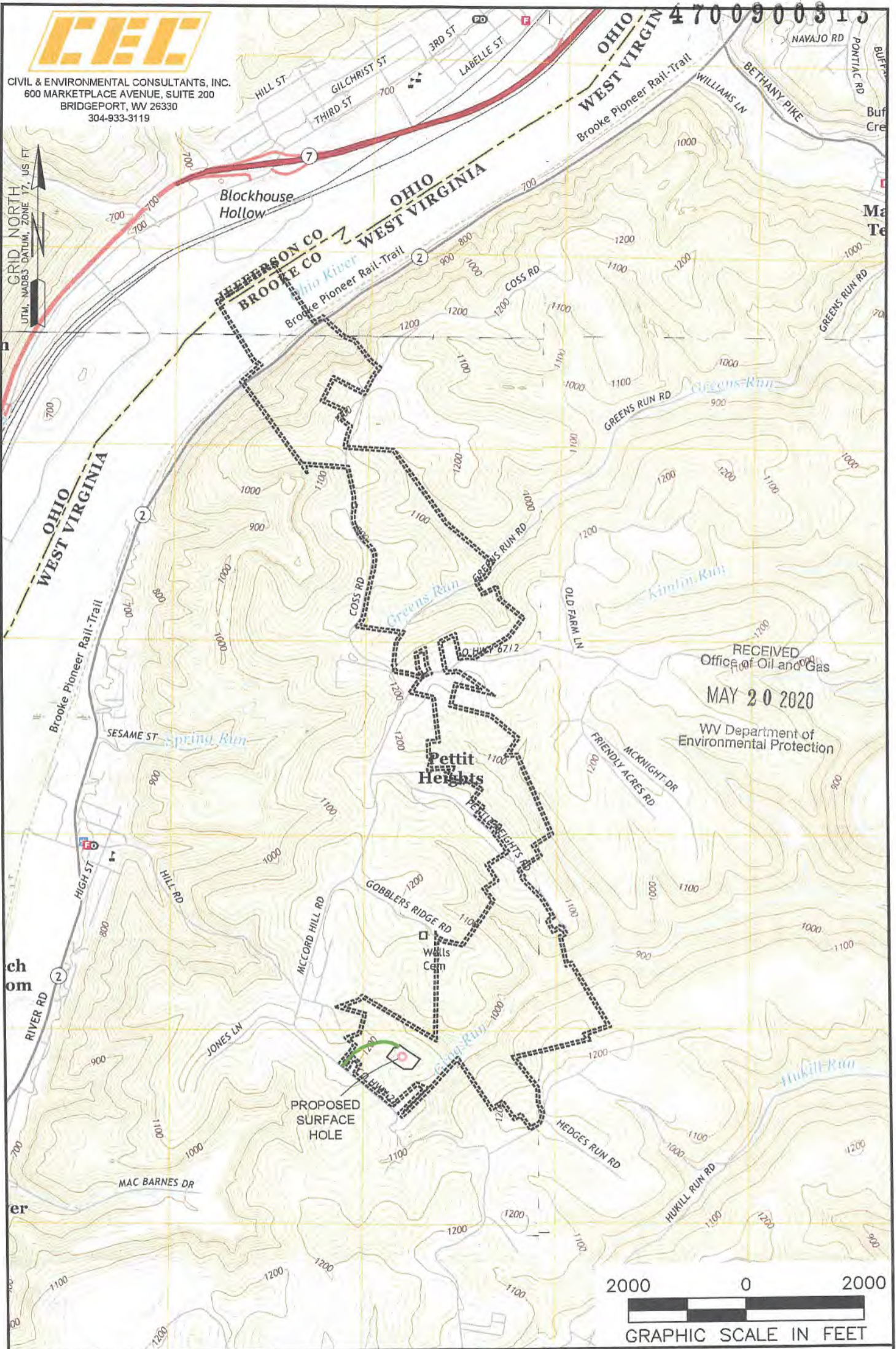
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CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
 600 MARKETPLACE AVENUE, SUITE 200  
 BRIDGEPORT, WV 26330  
 304-933-3119

GRID NORTH  
 UTM - NAD83 DATUM, ZONE 17, US FT



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**NOTES ON SURVEY**

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

**LEGEND:**

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL\* LANDING POINT LOCATION
- FLOOD PLAN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: BRIAN TESLOVICH BRK	WELL # 405H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, STE 201 MORGANTOWN, WV 26508	COUNTY - CODE BROOKE - 009	DISTRICT; BUFFALO DISTRICT	
SURFACE OWNER: BRIAN L. TESLOVICH	USGS 7 1/2 QUADRANGLE MAP NAME TILTONVILLE, WV		



**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 Notice:** 2/27/2020      **Date of Planned Entry:** 3/4/2020

**Delivery method pursuant to West Virginia Code § 22-6A-10a**

- PERSONAL SERVICE     
  REGISTERED MAIL     
  METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a). Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

**Notice is hereby provided to:**

SURFACE OWNER(s)

Name: Brian L. Teslovich

Address: 411 Sunset Drive  
Belle Vernon, PA 15012

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: C/O Leatherwood, Inc. Attn: Casey Saunders

Address: 000 Consol Energy Drive  
Canonsburg, PA 15317

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Office of Oil and Gas

MAY 20 2020

WV Department of  
Environmental Protection

MINERAL OWNER(s)

Name: Brian L. Teslovich

Address: 411 Sunset Drive  
Belle Vernon, PA 15012

\*please attach additional forms if necessary

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>40.216574, -80.633261</u>
County:	<u>Brooke</u>	Public Road Access:	<u>Apple Pie Ridge</u>
District:	<u>Buffalo</u>	Watershed:	<u>Lower Buffalo Creek</u>
Quadrangle:	<u>Tiltonsville</u>	Generally used farm name:	<u>Brian Teslovich</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: SWN PRODUCTION COMPANY, LLC

Telephone: 304-884-1610

Email: brittany\_woody@swn.com

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

Facsimile: 304-884-1690

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto: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 Requirement:** Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

**Date of Notice:** 03/17/2020 **Date Permit Application Filed:** 5/18/20

**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

**HAND DELIVERY**       **CERTIFIED MAIL RETURN RECEIPT REQUESTED**

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

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Office of Oil and Gas

**Notice is hereby provided to the SURFACE OWNER(s):**

Name: Windsor Coal Company  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
MAY 20 2020  
WV Department of Environmental Protection

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>531,202.333</u>
County:	<u>Brooke</u>	Northing:	<u>4,451,865.366</u>
District:	<u>Buffalo</u>	Public Road Access:	<u>McCord Hill Road</u>
Quadrangle:	<u>Tiltonsville</u>	Generally used farm name:	<u>Brian Teslovich BRK</u>
Watershed:	<u>Grog Run</u>		

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: SWN Production Company, LLC  
Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Telephone: 304-231-8329  
Email: Reid\_Croft@swn.com  
Facsimile: \_\_\_\_\_

Authorized Representative: Reid Croft  
Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Telephone: 304-231-8329  
Email: Reid\_Croft@swn.com  
Facsimile: \_\_\_\_\_

**Oil and Gas Privacy Notice:**

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







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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 Requirement:** Notice shall be provided at least **TEN (10)** days prior to filing a permit application.  
**Date of Notice:** 04/03/2020 **Date Permit Application Filed:** 5/17/20

**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

- HAND DELIVERY       CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

**Notice is hereby provided to the SURFACE OWNER(s):**

Name: Brian L. Teslovich  
Address: 211 Sunset Drive  
Belle Vernon, PA 15012

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an <sup>intent to enter upon</sup> interest in the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 531,202.333  
County: Brooke Northing: 4,451,865.366 **RECEIVED**  
District: Buffalo Public Road Access: McCord Hill Road **MAY 20 2020**  
Quadrangle: Tiltonsville Generally used farm name: Brian Teslovich BRK **WV Department of**  
Watershed: Grog Run **Environmental Protection**

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: SWN Production Company, LLC  
Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Telephone: 304-231-8329  
Email: Reid\_Croft@swn.com  
Facsimile: \_\_\_\_\_

Authorized Representative: Reid Croft  
Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Telephone: 304-231-8329  
Email: Reid\_Croft@swn.com  
Facsimile: \_\_\_\_\_

**Oil and Gas Privacy Notice:**

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







4700900313

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

March 16, 2020 ✓

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

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

Subject: DOH Permit for the Brian Teslovich Pad, Brooke County ✓  
Brian Teslovich BRK 405H Well Site

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Office of Oil and Gas  
MAY 20 2020  
WV Department of  
Environmental Protection

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



4700900313

Attachment VI Frac Additives

Product Name	Product Use	Chemical Name	CAS Number
AI-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21-1
		Cinnamaldehyde	104-55-2
		Butyl cellosolve	111-76-2
		Formic acid	64-18-6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49-1
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-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
		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
Ecopol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacrylate	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, Exoxylyated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
		No hazardous substance	N/A
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
HCL (SWN Well Services)	Hydrochloric Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
LP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
Plexslic 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylyated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
Plexslic 953	Friction Reducer	Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
		Petroleum Distillate	64742-47-8
Plexslic 957	Friction Reducer	Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoxylyated	68551-12-2
		Water	7732-15-5
		Hydrotreated light distillate (petroleum)	64742-47-8
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Propenoic acid, polymer with propenamide	9003-06-9
		Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
Plexaid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
Plexslic 922	no data available	Copolymer of 2-propenamide	69418-26-4
		Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium chloride ((NH4)Cl)	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
Tolcide PSS0A	Biocidal product	Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	397256-50-7
		Hydrotreated light petroleum distillate	64742-47-8
LD-2950	Friction Reducer	Ethoxylated alcohol	Proprietary
		Poly (oxy-1,2-ethanediyl) alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5
Legend LD-7750W	Scale Control	Methanol	67-56-1
		Phosphonic Acid Salt	Proprietary
MC MX 8-4743	Specialty Product	Sodium Nitrate	7631-99-4

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Environmental Protection







