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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, January 11, 2021  
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 1H  
47-009-00325-00-00

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.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is positioned above the printed name and title.

James A. Martin  
Chief

Operator's Well Number: BRIAN TESLOVICH BRK 1H  
Farm Name: BRIAN L. TESLOVICH  
U.S. WELL NUMBER: 47-009-00325-00-00  
Horizontal 6A New Drill  
Date Issued: 1/11/2021

# PERMIT CONDITIONS

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

## CONDITIONS

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

## 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)

API NO. 47-009 -  
OPERATOR WELL NO. Brian Teslovich BRK 1H  
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 1H 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

*[Handwritten signature]*  
*10/15/20*

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Target Formation- Marcellus, Up-Dip well to the North, Target Top TVD- 5773', Target Base TVD- 5824', Anticipated Thickness- 51', Associated Pressure- 3786

8) Proposed Total Vertical Depth: 5808'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 22940'

11) Proposed Horizontal Leg Length: 15007.88'

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 Coal Company/CONSOL  
Depth: 266'  
Seam: \_\_\_\_\_  
Owner: CONSOL Windsor Coal Company  
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WW-6B  
(04/15)

API NO. 47- 009  
OPERATOR WELL NO. Brian Teslovich BRK 1H  
Well Pad Name: Brian Teslovich BRK

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#                    | 340'                       | 340'                         | 341 sx/CTS                                |
| Coal         | See       | Surface     | Casing  |                        |                            |                              |   |
| Intermediate | 9 5/8"    | New         | J-55    | 36#                    | 1609'                      | 1609'                        | 630 sx/CTS                                |
| Production   | 5 1/2"    | New         | HCP-110 | 20#                    | 22940'                     | 22940'                       | Lead 776sx/Teal 3973sx/ 100' Inside Integ |
| Tubing       |           |             |         |                        |                            |                              |   |
| Liners       |           |             |         |                        |                            |                              |   |

*C. BRK*  
10-15-20

| 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     | 1.20/30% Excess          |
| Fresh Water  | 13 3/8"   | 17.5"                  | 0.380               | 2730                 | 633                                      | Class A     | 1.20/30% Excess          |
| Coal         | See       | Surface                | Casing              |                      |  |             |                          |
| Intermediate | 9 5/8"    | 12 1/4"                | 0.352               | 3520                 | 1768                                     | Class A     | 1.19/40% Excess          |
| Production   | 5 1/2"    | 8 3/4"-8 1/2"          | 0.361               | 14360                | 10500                                    | Class A     | 1.19/5% Excess           |
| Tubing       |           |                        |                     |                      |  |             |                          |
| Liners       |           |                        |                     |                      |  |             |                          |

PACKERS

|             |  |  |  |  |
|-------------|--|--|--|--|
| Kind:       |  |  |  |  |
| Sizes:      |  |  |  |  |
| Depths Set: |  |  |  |  |

## 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): 11.4222) 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<br>PRODUCT<br>NAME | BJ<br>PRODUCT<br>NAME           | NEXTIER<br>PRODUCT<br>NAME      | PRODUCT USE                         | CHEMICAL NAME                           | CAS-Number  |
| SURFACE<br>(FRESHWATER)<br><i>up to 3%</i> | <del>                    </del> | INTEGRA<br>SEAL                 | CJ600                           | LOST CIRC MATERIAL                  | CELLOPHANE FLAKES                       | 9005-81-6   |
|  | S001                            | A-7P                            | CJ110                           | ACCELERATOR                         | CALCIUM CHLORIDE                        | 10043-52-4  |
| COAL<br>PROTECTION<br><i>up to 3%</i>      | <del>                    </del> | INTEGRA<br>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<br>AGENT            | POLYPROPYLENE<br>GLYCOL                 | 25322-69-4  |
|  | <del>                    </del> | INTEGRA<br>SEAL                 | CJ600                           | LOST CIRC MATERIAL                  | CELLOPHANE FLAKES                       | 9005-81-6   |
|  | CemNet                          | <del>                    </del> | <del>                    </del> | LOST CIRC MATERIAL                  | COATED FIBERGLASS<br>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<br>SURFACTANT                  | 6540-99-4   |
|  | D047                            | FP 28L                          | <del>                    </del> | LIQUID ANTIFOAM<br>AGENT            | POLYPROPYLENE<br>GLYCOL                 | 25322-69-4  |
|  | <del>                    </del> | <del>                    </del> | CJX157011                       | SOLID ANTIFOAM<br>AGENT             | FULLERS<br>EARTH(ATTAPULGITE)           | 8031-18-3   |
|  | <del>                    </del> | <del>                    </del> | CJ540                           | HP FLUID LOSS<br>ADDITIVE           | ALIPHATIC AMIDE<br>POLYMER              | PROPRIETARY |
|  | D255                            | <del>                    </del> | <del>                    </del> | MED TEMP FLUID<br>LOSS ADDITIVE     | POLYACRILIC<br>POLYMER                  | PROPRIETARY |
|  | <del>                    </del> | <del>                    </del> | CJ213                           | RETARDER                            | CHRYSTALLINE SILICA                     | 14808-60-7  |
|  | <del>                    </del> | FL-66                           | CJ501                           | LOW TEMP FLUID<br>LOSS ADD          | POWDERED<br>POLYSACCHARIDE              | PROPRIETARY |
|  | <del>                    </del> | BENTONITE                       | CJ020                           | EXTENDER                            | BENTONITE                               | 1302-78-9   |
|  | D208                            | ASA-301                         | <del>                    </del> | VISCOSIFIER/ANTI-<br>SETTLING AGENT | REFINED POLYMER/<br>CHRYSTALLINE SILICA | PROPRIETARY |
|  | D198                            | R-3                             |                                 | CEMENT RETARDER                     | LIGNIN                                  | 8068-51-6   |
| SUGAR                                      | SUGAR                           | CJ795                           | CEMENT RETARDER                 | SUCROSE                             | 57-50-1                                 |             |

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Southwestern Energy Company

Proposed Drilling Program

Well: BRIAN TESLOVICH BRK 1 Re-entry Rig: TBD  
 Field: PANHANDLE FIELD WET Prospect: PANHANDLE  
 County: BROOKE State: WV  
 SHL: 40.2167 Latitude -80.6334 Longitude  
 BHL: 40.2468 Latitude -80.6507 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

*Eri Bed*  
 10-15-20

0' to 360'  
Air / Mist

360' to 1,629'  
Air / Mist

TUBULAR DETAIL

|               | Size (in) | Weight | Grade   | From | To      |
|---------------|-----------|--------|---------|------|---------|
| Conductor:    | 20        | 94.0 # | H-40    | 0'   | 100'    |
| Surf./Coal:   | 13.375    | 48.0 # | H-40    | 0'   | 340'    |
| Intermediate: | 9.625     | 36.0 # | J-55    | 0'   | 1,609'  |
| Production:   | 5.5       | 20.0 # | HCP-110 | 0'   | 22,940' |

1,629' to 5,921'

12.0 - 12.5

CEMENT DETAIL

|                 | Sacks | Class | Density |
|-----------------|-------|-------|---------|
| Conductor       | 151   | A     | 19.3    |
| Surface         | 341   | A     | 15.6    |
| Intermediate    | 630   | A     | 15.6    |
| Production Lead | 776   | A     | 15.6    |
| Production Tail | 3973  | A     | 15.6    |

12.0 - 12.5  
TD at 5,921'

KOP at 5,921' MD

Freshwater Depth - 115' TVD  
 Coal Void Depth - 266' TVD  
 Saltwater Depth - 405' TVD  
 TVD - 5,808'  
 TMD - 22,940'

5,921' to 6,482'  
12.0 - 12.5 ppg

5,808' Target Center

TD at 22,940' MD  
5,630' TVD

EOB at 5,808' TVD

SHL Onondaga 5,788' TVD

Onondaga 5,646' TVD

Office of Oil and Gas  
6,482' to 22,940'

OCT 30 2020 12.0 - 12.5 ppg

August 31, 2020

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

**RE:** Proposed New Well: Brian Teslovich BRK 1H

Dear Ms. Adkins

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

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

Thank you.

Sincerely,



Brittany Woody  
Senior Regulatory Analyst  
Southwestern Energy Production Company, LLC

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WW-9  
(4/16)

API Number 47 - 009 - \_\_\_\_\_  
Operator's Well No. Brian Testovich BRK 1H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC OP Code 494512924

Watershed (HUC 10) Grog Run Quadrangle Tiltonsville

Do you anticipate using more than 5,000 bbls of water to 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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air drill to KOP, fluid drill with SOBMs from KOP to TD

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

Additives to be used in drilling medium? Attachment 3B

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

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

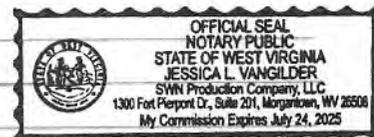
-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021

**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 31<sup>st</sup> day of August 20 20  
Jessica L. Vangilder Notary Public  
My commission expires 7-24-25

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**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:  10/15/20

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

Title: Oil & Gas Inspector Date: 10-15-20

Field Reviewed?  Yes  No

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# WVD Seeding Specification

R<sup>2</sup>  
A → V<sup>+</sup>

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

## NON-ORGANIC PROPERTIES

| Seed Mixture: ROW Mix   | SWN Supplied |
|---|--------------|
| Orchardgrass  | 40%          |
| Timothy   | 15%          |
| Annual Ryegrass   | 15%          |
| Brown Top Millet  | 5%           |
| Red Top   | 5%           |
| Medium Red Clover   | 5%           |
| White Clover  | 5%           |
| Birdsfoot Trefoil   | 5%           |
| Rough Bluegrass   | 5%           |
| All legumes are<br>innoculated at 5x normal<br>rate                                     |              |
| Apply @ 100lbs per acre<br>April 16th- Oct. 14th  |              |
| Apply @ 200lbs per acre<br>Oct. 15th- April 15th PLUS<br>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<br>April 16th- Oct. 14th |                                   |
| Apply @ 200lbs per acre<br>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<br>April 16th- Oct. 14th |              |
| Apply @ 50lbs per acre<br>Oct. 15th- April 15th |              |
| NO FERTILIZER OR LIME INSIDE WETLAND LIMITS     |              |

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Environmental Protection

9-00325

# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

**API NO. 47-XXX-XXXXX**  
**WELL NAME: Brian Teslovich BRK 1H**  
**Tiltonsville QUAD**  
**Buffalo DISTRICT**  
**Brooke COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody

Date: 8/31/2020

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name:

Date: 10-15-20

Title: Oil + Gas Inspector

Approved by:

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

Date: \_\_\_\_\_

Title: \_\_\_\_\_

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## 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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**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

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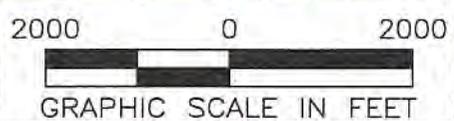
OCT 30 2020

WV Department of  
Environmental Protection



CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
 600 MARKETPLACE AVENUE, SUITE 200  
 BRIDGEPORT, WV 26330  
 304-833-3119

GRID NORTH  
 UTM, NAD83, ZONE 18T  
 1:250,000



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
- LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR:  
 SWN PRODUCTION COMPANY, LLC  
 ADDRESS:  
 1300 FORT PIERPONT DRIVE, STE 201 MORGANTOWN, WV 26508  
 SURFACE OWNER:  
 BRIAN L TESLOVICH

|  |                               |                  |
|--|-------------------------------|------------------|
| WELL (FARM) NAME:<br>BRIAN TESLOVICH BRK           | WELL #<br>1H                  | SERIAL #<br>XXXX |
| COUNTY - CODE<br>BROOKE - 009                      | DISTRICT;<br>BUFFALO DISTRICT |                  |
| USGS 7 1/2 QUADRANGLE MAP NAME<br>TILTONSVILLE, WV |                               |                  |





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600 MARKETPLACE AVENUE, SUITE 200  
BRIDGEPORT, WV 26330  
304-933-3119

| ADJOINING OWNERS TABLE |   |               |
|------------------------|---|---------------|
| TRACT                  | SURFACE OWNER   | TAX PARCEL    |
| A                      | WINDSOR POWER HOUSE COAL CO                           | 03-B36-104    |
| B                      | COLUMBIA GAS COMPANY                                  | 03-B36-144    |
| C                      | LOUGHRIE FLOYD R & DORIS M                            | 03-B36-38     |
| D                      | MASSEY TAMMY S  | 03-B36-39     |
| E                      | HAMILTON KEITH  | 03-B36-37     |
| F                      | STILLION DANNY L & THERESA E (SURV)                   | 03-B36-40     |
| G                      | CONLEY CHARLES A & LINDA (SURV)                       | 03-B36-69     |
| H                      | CONLEY CHARLES & LINDA (OU) (ITWS)                    | 03-B36-56     |
| I                      | BEECH CREST IMPROVEMENT ASSOCIATION, THE              | 03-B36-58     |
| J                      | LEMASTERS LARRY W & LINDA J                           | 03-B36-59     |
| K                      | GORDER MARK JOHN ETAL (LE-GREGORY & VERA GORDER       | 03-B36G-21    |
| L                      | STEPHENS BARBARA JEAN                                 | 03-B36G-19    |
| M                      | STEPHENS BARBARA JEAN                                 | 03-B36G-18    |
| N                      | SMITH MELONIE J                                       | 03-B36G-25    |
| O                      | SMITH MELONIE J                                       | 03-B36G-26    |
| P                      | ULLOM THOMAS R & ELEANOR J (SURV)                     | 03-B36G-27    |
| Q                      | ULLOM THOMAS R & ELEANOR J (SURV)                     | 03-B36G-28    |
| R                      | ULLOM THOMAS R & ELEANOR J (SURV)                     | 03-B36G-29    |
| S                      | HOFFER EUGENE & MARY LOU                              | 03-B36G-38    |
| T                      | CLARK FAMILY 1988 TRUST (L EST LOIS PAULINE BRYANT)   | 03-B36G-40    |
| U                      | KENNEDY JASON D                                       | 03-B36G-39    |
| V                      | LEMASTERS HARLEY                                      | 03-B36G-46    |
| W                      | LEMASTERS HARLEY                                      | 03-B36G-45    |
| X                      | LEMASTERS HARLEY                                      | 03-B36G-44    |
| Y                      | LEMASTERS HARLEY                                      | 03-B36G-43    |
| Z                      | LEMASTERS HARLEY J                                    | 03-B36G-42    |
| AA                     | LEMASTERS HARLEY J                                    | 03-B36G-41    |
| BB                     | WALLACE LESTER & KATHERINE (SURV)                     | 03-B36G-1     |
| CC                     | BUSINESS DEV CORP OF THE NORTHERN PANHANDLE           | 01-836-23.1   |
| DD                     | BOARD OF EDUCATION                                    | 01-836B-106   |
| EE                     | VILLAGE OF BEECH BOTTOM                               | 01-836B-17    |
| FF                     | VILLAGE OF BEECH BOTTOM                               | 01-836B-16    |
| GG                     | SMART JUSTIN & AMANDA (ITWS)                          | 01-836B-13    |
| HH                     | LEWIS GEORGE M & JUDY (SURV)                          | 01-836B-12    |
| II                     | DAUGHERTY BELINDA; ET AL (L EST - JUNE ANN DAUGHERTY) | 01-836B-11    |
| JJ                     | MCCUTCHAN BARBARA                                     | 01-836B-10    |
| KK                     | HUNTER BRICE & VICKI LYNN                             | 01-836B-9     |
| LL                     | PHILABAUM ANDREW J & BRADLEY STEPHANIE (ITWS)         | 01-836B-8     |
| MM                     | PHILABAUM ANDREW J & BRADLEY STEPHANIE (ITWS)         | 01-836B-7     |
| NN                     | RICHIE JOHN C & KELLY A                               | 01-836B-6     |
| OO                     | RICHIE JOHN C & KELLY A                               | 01-836B-5     |
| PP                     | DALBO PATRICK J                                       | 01-836B-2     |
| QQ                     | VILLAGE OF BEECH BOTTOM                               | 01-836B-1     |
| RR                     | SMITH JOYCE A   | 01-836B-120   |
| SS                     | EMASES PROPERTIES LLC                                 | 01-836B-121.1 |
| TT                     | COUCH LARRY WILLIAM (LIFE ESTATE-JEAN COUCH)          | 01-836B-124   |
| UU                     | CONERY EDWARD A                                       | 01-836B-125   |
| VV                     | MILLER LOUIS & ARLINE                                 | 03-B36-5      |
| WW                     | MILLER LOUIS & ARLINE                                 | 03-B36-6      |
| XX                     | UNKNOWN   | 03-B31-74     |
| YY                     | BAKER OTIS M JR & EDNA JO                             | 01-8831-19    |
| ZZ                     | PELL ALBERT T & SHEILA SURV                           | 01-8831-25    |
| AAA                    | NIELSEN CARL P & MARGARET (SURV)                      | 03-B31-58     |
| BBB                    | CROSS REBECCA RUTH                                    | 03-B31-81.1   |
| CCC                    | LOMBARD BERNARD J III &                               | 01-8831-58    |
| DDD                    | MCCLEAN JAMES B & CYNTHIA S (SURV)                    | 01-8831-59    |
| EEE                    | MCCLOUD BARBARA J & WILSON MARY LOUISE                | 01-8831-60    |
| FFF                    | MICABEE MICHAEL D                                     | 01-8831-62    |
| GGG                    | GIBSON JENNIFER A                                     | 01-8831-63    |
| HHH                    | VIDERMAN DAVID G JR & LINDA J.R. (SURV)               | 01-8831-1     |
| III                    | ONONDAGA HOLDING COMPANY LLC                          | 01-8831-67    |
| JJJ                    | ALLEN ZACHARY A.                                      | 01-8831-67.1  |
| KKK                    | WEST VIRGINIA DEPT OF TRANSPORTATION DOH              | 03-B31-4      |
| LLL                    | WALNOHA RAY   | 03-B31-5      |
| MMM                    | WALNOHA RAY   | 03-B31-6      |
| NNN                    | THOMPSON ETAL & A&G THOMPSON GROUP LLC                | 03-B31-8      |
| OOO                    | ALLEN CHARLES WESLEY                                  | 03-B31-7      |
| PPP                    | WEEKLY MARION; GROVES NANCY                           | 03-B31-130    |
| QQQ                    | ROBINSON PATRICIA GRAYSON                             | 03-B31-83     |
| RRR                    | GRIMM JAMES W   | 03-B31-129    |
| SSS                    | GRIMM JAMES W & ROBIN LYNN (SURV)                     | 03-B31-128    |
| TTT                    | GRIMM JAMES W   | 03-B31-127    |
| UUU                    | LEMASTERS HARLEY J                                    | 03-B31-126    |
| VVV                    | STEWART DEBBIE  | 03-B31-125    |
| WWW                    | LEMASTERS HARLEY J                                    | 03-B31-124    |
| XXX                    | LEMASTERS HARLEY J                                    | 03-B31-123    |
| YYY                    | COOPER KYLE T & KATJUN R (ITWS)                       | 03-B31-122    |
| ZZZ                    | WOOLWINE TIMOTHY A & MELINA BETH                      | 03-B31-80     |
| AAAA                   | CROSS REBECCA RUTH                                    | 03-B31-81.1   |
| BBBB                   | WALNOHA MICHAEL S                                     | 03-B31-79     |
| CCCC                   | FODOR STEPHEN A                                       | 03-B36-176    |
| DDDD                   | HOFFMAN JOHN R; BUCHANAN ALICE J                      | 03-B36-175    |
| EEEE                   | LEONARD PAUL D & KIMBERLY D (SURV)                    | 03-B36-173    |
| FFFF                   | LEMASTERS HARLEY J & REBECCA K (SURV)                 | 03-B36-149    |
| GGGG                   | LEMASTERS HARLEY J & REBECCA K (SURV)                 | 03-B36-150    |
| HHHH                   | HEHR JUSTIN   | 03-B36-151    |

| ADJOINING OWNERS TABLE |   |            |
|------------------------|---|------------|
| TRACT                  | SURFACE OWNER                                     | TAX PARCEL |
| III                    | HEHR JUSTIN W & DAYNA A                           | 03-B36-152 |
| JJJJ                   | MCCONKEY TIMOTHY & CATHERINE (SURV)               | 03-B36-153 |
| KKKK                   | MCCONKEY TIMOTHY & CATHERINE (SURV)               | 03-B36-154 |
| LLLL                   | LEMASTERS HARLEY J & REBECCA K (SURV)             | 03-B36-158 |
| MMMM                   | CATULLO JOHN A                                    | 03-B36-157 |
| NNNN                   | MILLER LOUIS                                      | 03-B36-125 |
| OOOO                   | MONROE NORMAN JR & GAE REGINA (ETAL) JTWS         | 03-B36-130 |
| PPPP                   | FIBER RICKEY E                                    | 03-B36-132 |
| QQQQ                   | ANDERSON JEROME & CATHY                           | 03-B36-134 |
| RRRR                   | ANDERSON JEROME W & CATHY SURV                    | 03-B36-135 |
| SSSS                   | FIBER MERRY M                                     | 03-B36-133 |
| TTTT                   | CHAPEL HILL CHURCH                                | 03-B36-131 |
| UUUU                   | LIZON JOSEPH P JR                                 | 03-B36-123 |
| VVVV                   | HOPKINS DALE V                                    | 03-B36-124 |
| WWWW                   | ROCKHOLD HOWARD M & DEBROAH S (SURV)              | 03-B36-122 |
| XXXX                   | HUNT HAROLD R                                     | 03-B36-121 |
| YYYY                   | MONROE CHARLES N & GAY R (SURV)                   | 03-B36-120 |
| ZZZZ                   | LOY CHRISTOPHER S & INGRID E (SURV)               | 03-B36-119 |
| AAAAA                  | GEORGE MAXINETODD & JOHN GEORGE JR                | 03-B41-100 |
| BBBBB                  | COWAN ERVAN R; RICHARD; DIGHT DIANE; TENNANT JODY | 03-B41-101 |
| CCCCC                  | COCHRAN WILLIAM J & SANDRA L (SURV)               | 03-B41-102 |
| DDDDD                  | SMITH WAYNE J & KASSI JO (SURV)                   | 03-B41-103 |
| EEEEE                  | SMITH WAYNE J & KASSI JO (SURV)                   | 03-B41-104 |
| FFFFF                  | SNODERLY ROGER L & KAREN A (ITWS)                 | 03-B41-105 |
| GGGGG                  | SNODERLY ROGER L & KAREN A (SURV)                 | 03-B41-106 |
| HHHHH                  | KADESH CHAPEL CEMETARY                            | 03-B41-107 |
| IIIII                  | KADESH CHAPEL CEMETARY                            | 03-B41-108 |
| JJJJJ                  | LOWMILLER REBECCA A                               | 03-B41-96  |
| KKKKK                  | FLUHARTY ELIZABETH ELLEN                          | 03-B41-95  |
| LLLLL                  | CAPP ERNEST F & JOANNE P                          | 03-B41-98  |
| MMMMM                  | CAPP ERNEST F & JOANNE                            | 03-B41-64  |
| NNNNN                  | DUFFY CAROL L                                     | 03-B36-113 |
| OOOOO                  | COEN SCOTTY B & AMY L (SURV)                      | 03-B36-138 |
| PPPPP                  | ADAMS MARK A & MELODY J                           | 03-B36-139 |
| QQQQQ                  | FATHERINGHAM ROBERT & GEORGIA                     | 03-B36-109 |
| RRRRR                  | PHILLIPS MARK-1/6 ATKINSON GAIL-1/6 ETAL          | 03-B36-107 |
| SSSSS                  | BRITT CONNIE C                                    | 03-B36-141 |
| TTTTT                  | ADAMS MARK A & MELODY J                           | 03-B36-139 |
| UUUUU                  | RICHMAN TREVOR SEAN                               | 03-B36-106 |
| VVVVV                  | BEECH BOTTOM VOLUNTEER FIRE DEPARTMENT            | 03-B36-105 |

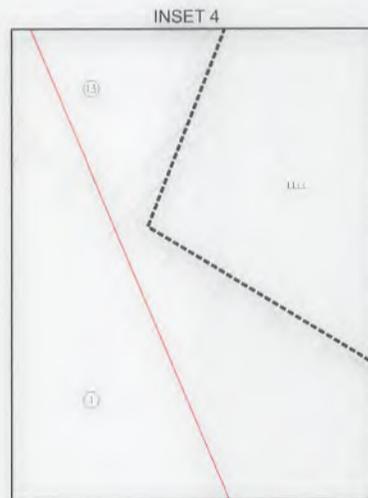
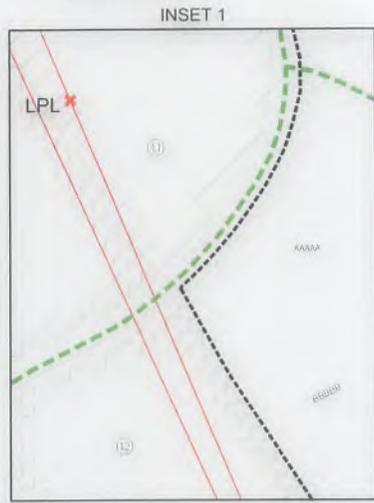
| WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS |  |              |
|--|--|--------------|
| TRACT                                      | SURFACE OWNER (S) / ROYALTY OWNER (R)                  | TAX PARCEL   |
| 1  | BRIAN L TESLOVICH (S) / SWN PRODUCTION COMPANY LLC (R) | 03-B36-145   |
| 2  | COLTLER LYNN; DAVID ETAL (LE-LAVAUGHN COULTER)         | 03-B36-143   |
| 3  | ADAMS MARK A & MELODY J                                | 03-B36-142   |
| 4  | COEN SCOTTY B & AMY L (SURV)                           | 03-B36-136   |
| 5  | COEN SCOTTY B & AMY L (SURV)                           | 03-B36-137   |
| 6  | BROOKE COUNTY ROUTE 28                                 |              |
| 7  | VAN HORN MARK LLOYD & JOANN (SURV)                     | 03-B36-114   |
| 8  | SEIDLER ELIJAH H. & FARMER CHARENCE JR.                | 03-B36-115   |
| 9  | DONNA HARMS & CAROLYN BARNES                           | 03-B36-116   |
| 10   | FERRY JEFFREY ALAN ETAL (LE-MAX F & PATRICIA FERRY)    | 03-B36-117   |
| 11   | VAN HORN MARK LLOYD & JOANN (SURV)                     | 03-B36-118   |
| 12   | BASIL LORETTA JOAN                                     | 03-B41-99    |
| 13   | LEMASTERS HARLEY J & REBECCA K (SURV)                  | 03-B36-159   |
| 14   | WRIGHT MARKUS K & PEGGY J & FKA PEGGY J SAYRE          | 03-B36-160   |
| 15   | VIAU THOMAS J & JENNIFER J (ITWS)                      | 03-B36-161   |
| 16   | GRAHAM DEBORAH A                                       | 03-B36-162   |
| 17   | ULLOM THOMAS R & ELEANOR J (SURV)                      | 03-B36G-30   |
| 18   | HENTHORN HOMER JR & DORIS                              | 03-B36G-31   |
| 19   | HENTHORN HOMER H & DORIS                               | 03-B36G-32   |
| 20   | HENTHORN HOMER H & DORIS                               | 03-B36G-33   |
| 21   | LANGLEY ROBERT L & LANGLEY AMY                         | 03-B36G-34   |
| 22   | LANGLEY ROBERT L & LANGLEY AMY JO                      | 03-B36G-35   |
| 23   | LANGLEY ROBERT L & LANGLEY AMY JO                      | 03-B36G-36   |
| 24   | LANGLEY ROBERT L & LANGLEY AMY JO                      | 03-B36G-37   |
| 25   | LEMASTERS HARLEY J                                     | 03-B36G-47   |
| 26   | LEMASTERS HARLEY J                                     | 03-B36-170   |
| 27   | LEONARD BRANNON P & EMILY M (SURV)                     | 03-B36-171   |
| 28   | LEONARD BRANNON P & EMILY M (SURV)                     | 03-B36-172   |
| 29   | BUSINESS DEV CORP OF THE NORTHERN PANHANDLE            | 01-8836-23.1 |
| 30   | LOMBARD BERNARD J III                                  | 03-B31-81    |
| 31   | LOMBARD BERNARD J III                                  | 03-B31-82    |
| 32   | SCHIAPPA AND COMPANY INC                               | 01-8831-65   |
| 33   | KOKOSINSKI JASON & JARRETT                             | 01-8831-64   |
| 34   | KOKOSINSKI JASON EDWARD                                | 01-8831-64.1 |
| 35   | ALLEN ZACHARY A.                                       | 01-8831-66   |
| 36   | ONONDAGA HOLDING COMPANY LLC                           | 01-8831-67   |
| 37   | WV STATE ROUTE 2                                       |              |
| 38   | THOMPSON ETAL & A&G THOMPSON GROUP LLC                 | 03-B31-8     |
| 39   | W VA DEPT OF HIGHWAYS                                  | 03-B27-11    |
| 40   | TOUPS AMY M TRUST OF 2013 J MATTHEW & ELIZ PADDEN      | 03-B31-14    |
| 41   | OHIO RIVER   |              |

API WELL #: **47** STATE **009** COUNTY **00325 H6A** PERMIT

|  |  |   |
|--|--|---|
| REVISIONS:<br>& ADDED LEASE INFORMATION 12-16-2020<br>& ADDED LEASE INSERTS 12-17-2020<br>& REVISED LEASE INFORMATION 12-31-2020 | COMPANY:<br>   | DATE: 09-16-2020  |
| OPERATOR'S<br>WELL #:<br>DISTRICT:<br>BUFFALO DISTRICT   | BRIAN TESLOVICH BRK<br>1H<br>COUNTY:<br>BROOKE<br>STATE:<br>WV | DRAWN BY: K.E.S.<br>SCALE: N/A<br>DRAWING NO: 175-057<br>WELL LOCATION PLAT 2 |



CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
 600 MARKETPLACE AVENUE, SUITE 200  
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47-009-00325 H6A

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**LEGEND:**

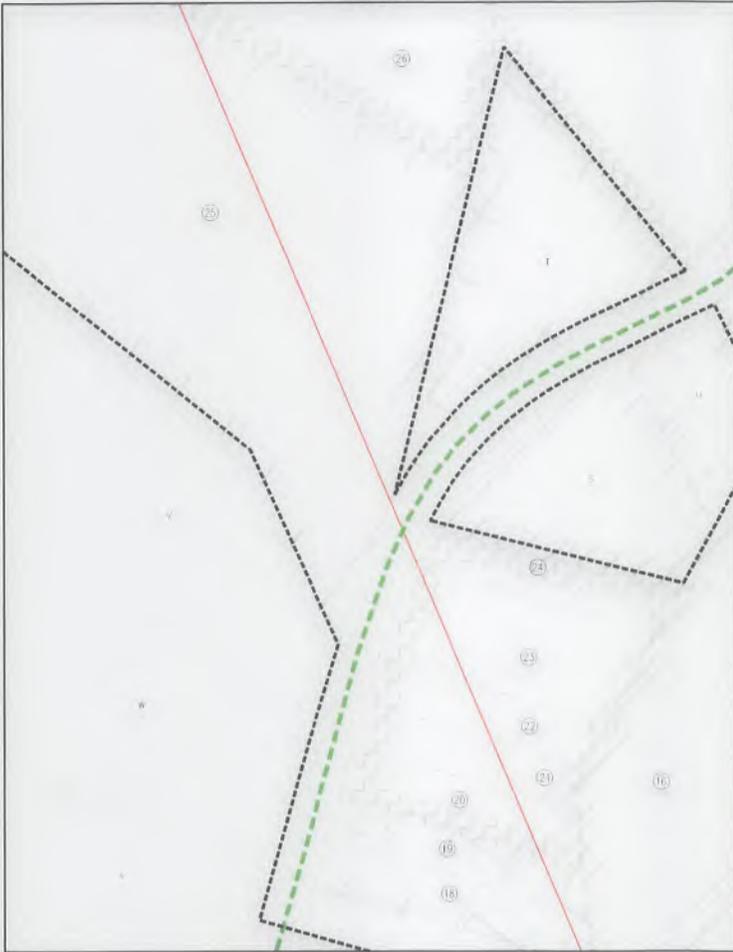
- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- ★ LPL LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

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

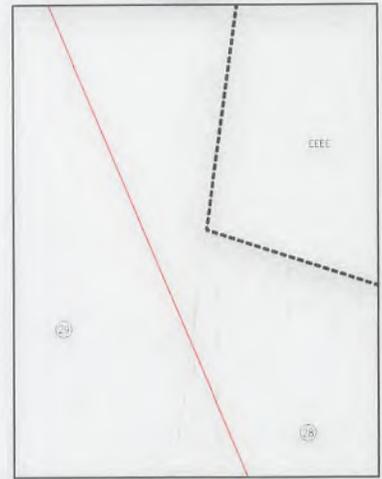


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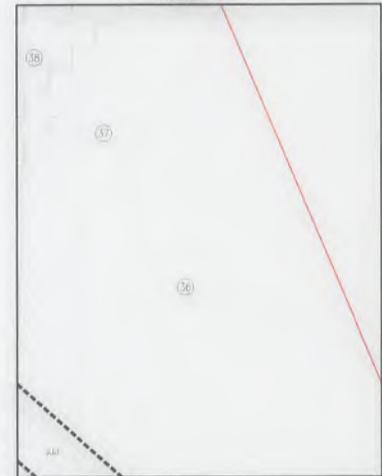
INSET 6



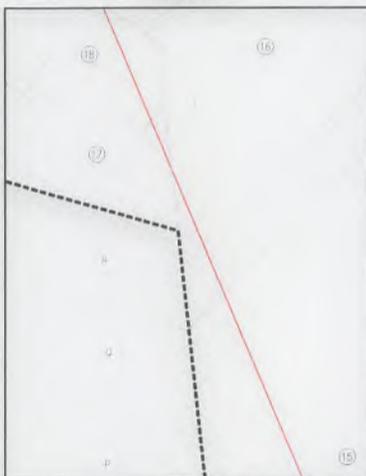
INSET 7



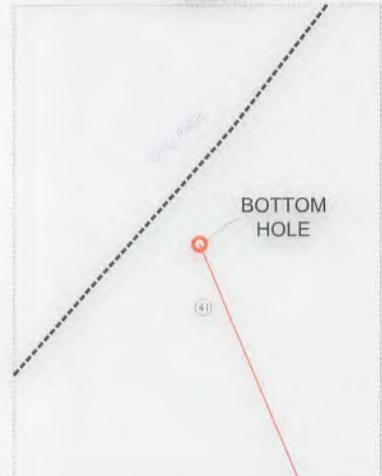
INSET 8



INSET 5



INSET 9



47-009-00325 H 6A

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**LEGEND:**

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

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

WW-6A1  
(5/13)

Operator's Well No. BRIAN TESLOVICH BRK 1H

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

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

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

| Lease Name or Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|----------------------|-----------------------|-----------------------|---------|-----------|
|----------------------|-----------------------|-----------------------|---------|-----------|

See Exhibit "A"

\*Co-tenancy utilization - At least 7 mineral owners in tract and at least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-tenancy Modernization and Majority Protection Act.

**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 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

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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: Bailey Brewer  
Its: Landman - SW Appalachia

EXHIBIT "A"

4700900325

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator  
 Brian Teslovich BRK 1H  
 Brooke County, West Virginia

| #   | TMP                    | LESSOR  | LESSEE                      | ROYALTY | BK/PG  | Interest Not Leased by SWN Production Company, LLC |
|-----|------------------------|---|-----------------------------|---------|--------|--|
| 1)  | 03-B36-145             | Mountainer Natural Gas Company  | Chesapeake Appalachia, LLC  | 17.00%  | 24/216 | 0.00%  |
|     |                        | Martha E. Wakefield   | SWN Production Company, LLC | 16.0%   | 30/480 |  |
|     |                        | Janet L. Debar, a/k/a Janet Agnew Debar   | SWN Production Company, LLC | 16.0%   | 47/527 |  |
|     |                        | Mark Leavitt, single  | SWN Production Company, LLC | 16.0%   | 47/774 |  |
|     |                        | Jean E. Leavitt, single   | SWN Production Company, LLC | 16.0%   | 47/787 |  |
|     |                        | Thomas Leavitt, single  | SWN Production Company, LLC | 16.0%   | 48/1   |  |
|     |                        | Alan Westelin and Sally A. Westelin, husband and wife   | SWN Production Company, LLC | 16.0%   | 48/200 |  |
|     |                        |   | SWN Production Company, LLC | 16.0%   | 49/20  |  |
| 2)  | 03-B36-143             | Vera LaVaughn Coulter, Life Tenant, widow   | Chesapeake Appalachia LLC   | 18.00%  | 30/366 | 0.00%  |
|     |                        | Deborah Kay Archey  | SWN Production Company, LLC | 18.00%  | 31/288 |  |
|     |                        |   | Chesapeake Appalachia LLC   | 18.00%  | 30/372 |  |
|     |                        |   | SWN Production Company, LLC | 18.00%  | 31/288 |  |
|     |                        | David Wayne Coulter   | Chesapeake Appalachia LLC   | 18.00%  | 30/378 |  |
|     |                        |   | SWN Production Company, LLC | 18.00%  | 31/288 |  |
|     |                        | Lynn Paul Coulter   | Chesapeake Appalachia LLC   | 18.00%  | 30/384 |  |
|     |                        |   | SWN Production Company, LLC | 18.00%  | 31/288 |  |
| 3)  | 03-B36-142             | Mark A. Adams and Melody J. Adams, husband and wife   | SWN Production Company, LLC | 18.00%  | 36/287 | 0.00%  |
| 4)  | 03-B36-136             | Scotty B. Coen and Amy L. Coen, husband and wife  | Chesapeake Appalachia, LLC  | 18.00%  | 29/419 | 0.00%  |
|     |                        |   | SWN Production Company, LLC | 18.00%  | 31/288 |  |
| 5)  | 03-B36-137             | Scotty B. Coen and Amy L. Coen, husband and wife  | Chesapeake Appalachia, LLC  | 18.00%  | 29/419 | 0.00%  |
|     |                        |   | SWN Production Company, LLC | 18.00%  | 31/288 |  |
| 6)  | BROOKE COUNTY ROUTE 28 | RIGHT OF WAY  |                             |         |        |  |
| 7)  | 03-B36-114             | Mark Lloyd Van Horn and Joann Elizabeth Van Horn, his wife  | Chesapeake Appalachia, LLC  | 18.00%  | 16/404 | 0.00%  |
|     |                        |   | SWN Production Company, LLC | 18.00%  | 30/480 |  |
| 8)  | 03-B36-115             | Gayle B Harms, widow and not remarried, Life Tenant, Agent appearing herein by and through, Carolyn Lee Barnes, her Agent and Attorney, and Carolyn Lee Barnes, divorced and not remarried, Remainderman, and Donna Gay Harms, a single woman, Remainderman | Chesapeake Appalachia, LLC  | 18.00%  | 18/231 | 0.00%  |
|     |                        |   | SWN Production Company, LLC | 18.00%  | 30/480 |  |
| 9)  | 03-B36-116             | Gayle B Harms, widow and not remarried, Life Tenant, Agent appearing herein by and through, Carolyn Lee Barnes, her Agent and Attorney, and Carolyn Lee Barnes, divorced and not remarried, Remainderman, and Donna Gay Harms, a single woman, Remainderman | Chesapeake Appalachia, LLC  | 18.00%  | 18/231 | 0.00%  |
|     |                        |   | SWN Production Company, LLC | 18.00%  | 30/480 |  |
| 10) | 03-B36-117             | Max F. Ferry and Patricia Ferry, husband and wife, Life Tenants, Agents, Andria Maria Miller, a single woman, Joann Elizabeth Van Horn and Mark Van Horn, her husband   | Chesapeake Appalachia, LLC  | 18.00%  | 17/7   | 0.00%  |
|     |                        |   | SWN Production Company, LLC | 18.00%  | 30/480 |  |

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|-----|------------|--|-----------------------------|--------|---------|-------|
|     |            | Christine Suzanne Merritt and John T. Merritt, her husband, Remainderman   | Chesapeake Appalachia, LLC  | 18.00% | 17/722  |       |
|     |            | Jeffrey Alan Ferry and Julie Ferry, his wife, Remainderman   | SWN Production Company, LLC |        | 33/492  |       |
|     |            |  | Chesapeake Appalachia, LLC  | 18.00% | 18/287  |       |
|     |            |  | SWN Production Company, LLC |        | 33/492  |       |
|     |            | John Michael Ferry and Nicole Ferry, his wife, Remainderman  | Chesapeake Appalachia, LLC  | 18.00% | 17/691  |       |
|     |            |  | SWN Production Company, LLC |        | 33/492  |       |
| 11) | 03-B36-118 | Mark Lloyd Van Horn and Joann Elizabeth Van Horn, his wife   | Chesapeake Appalachia, LLC  | 18.00% | 16/404  | 0.00% |
|     |            |  | SWN Production Company, LLC |        | 30/480  |       |
| 12) | 03-B41-99  | Loretta J. Basil, aka Loretta Joan Basil, a widow  | Chesapeake Appalachia, LLC  | 18.00% | 19/579  | 0.00% |
|     |            |  | SWN Production Company, LLC |        | 30/480  |       |
| 13) | 03-B36-159 | *Kevin Ryan  |                             |        | 401/305 | 0.53% |
|     |            | Johanna Ryan, widow, appearing as an Individual and as Executrix of the Estate of Vincent Jason Ryan III   | SWN Production Company, LLC | 18.00% | 59/43   |       |
|     |            | Anna May Miller, a widow dealing herein with her separate property   | SWN Production Company, LLC | 18.00% | 37/112  |       |
|     |            | James E. Williams, a married man dealing herein with his separate property, and Lois A. Williams, a married woman, delaing hereing with her sperate prooerty   | SWN Production Company, LLC | 14.00% | 38/723  |       |
|     |            | Marilyn Miller, a widow  | SWN Production Company, LLC | 16.00% | 39/443  |       |
|     |            | Joanne L. Turner, widow  | SWN Production Company, LLC | 16.00% | 39/449  |       |
|     |            | Joseph R. N. Miller III, a married man, dealing herein with his sperate property   | SWN Production Company, LLC | 16.00% | 39/455  |       |
|     |            | Robert W. Dally, Jr., a single man represented hereinby Clifford E. Good, as Power of Attorney   | SWN Production Company, LLC | 18.00% | 39/467  |       |
|     |            | Joyce H. Tomalin, represented herein by Attorney-in-Fact   | SWN Production Company, LLC | 18.00% | 39/473  |       |
|     |            | Beverly Miller, a widow  | SWN Production Company, LLC | 18.00% | 39/479  |       |
|     |            | Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing herein with his eperate property, August Robert Alexander, a married man, dealing herein with his separate property, Linda S. Greathouse, a married woman, dealing herein with her sperate property, Charlene LeMastes, a married woman, dealing herein wiht her seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Beverly Clifton-Lowe, a married woman, delaing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property | SWN Production Company, LLC | 18.00% | 39/543  |       |
|     |            | Marjorie Cook DeShazer, a widow  | SWN Production Company, LLC | 14.00% | 39/793  |       |

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| 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  |
| Bonnie Walter  | SWN Production Company, LLC | 18.00% | 47/48  |
| 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 |

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| 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  |        |
| Sherri Lynn Husic, 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  |        |
| Pamela Sue Amadril, 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<br>(Company owned minerals)  |  |                             | 386/387 |        |
| Jerome Williams  | SWN Production Company, LLC  | 14.00%                      | 53/368  |        |
| 14) 03-B36-160   | *Kevin Ryan  |                             | 401/305 | 0.53%  |
|  | Johanna Ryan, widow, appearing as an Individual and as Executrix of the Estate of Vincent Jason Ryan III   | SWN Production Company, LLC | 18.00%  | 59/43  |
|  | Anna May Miller, a widow dealing herein with her separate property   | SWN Production Company, LLC | 18.00%  | 37/112 |
|  | James E. Williams, a married man dealing herein with his separate property, and Lois A. Williams, a married woman, dealing herein with her separate property | SWN Production Company, LLC | 14.00%  | 38/723 |
|  | Marilyn Miller, a widow  | SWN Production Company, LLC | 16.00%  | 39/443 |
|  | Joanne L. Turner, widow  | SWN Production Company, LLC | 16.00%  | 39/449 |
|  | Joseph R. N. Miller III, a married man, dealing herein with his separate property  | SWN Production Company, LLC | 16.00%  | 39/455 |
|  | Robert W. Dally, Jr., a single man represented herein by Clifford E. Good, as Power of Attorney  | SWN Production Company, LLC | 18.00%  | 39/467 |
|  | Joyce H. Tomalin, represented herein by Attorney-in-Fact   | SWN Production Company, LLC | 18.00%  | 39/473 |
|  | Beverly Miller, a widow  | SWN Production Company, LLC | 18.00%  | 39/479 |

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| Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing herein with his eperate property, August Robert Alexander, a married man, dealing herein with his separate property, Linda S. Greathouse, a married woman, dealing herein with her sperate property, Charlene LeMastes, a married woman, dealing herein wiht her seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Beverly Clifton-Lowe, a married woman, delaing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property | SWN Production Company, LLC | 18.00% | 39/543 |
| Marjorie Cook DeShazer, a widow  | SWN Production Company, LLC | 14.00% | 39/793 |
| 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 withhis 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 |
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| 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 withher 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 |

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| 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, dealign 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   |        |
| Bonnie Walter  | SWN Production Company, LLC  | 18.00%                      | 47/48   |        |
| 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  |        |
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| Pamela Sue Amadril, 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<br>(Company owned minerals)  |  |                             | 386/387 |        |
| Jerome Williams  | SWN Production Company, LLC  | 14.00%                      | 53/368  |        |
| 15) 03-836-161   | *Kevin Ryan  |                             | 401/305 | 0.53%  |
|  | Johanna Ryan, widow, appearing as an Individual and as Executrix of the Estate of Vincent Jason Ryan III | SWN Production Company, LLC | 18.00%  | 59/43  |
|  | Anna May Miller, a widow dealing herein with her separate property                                       | SWN Production Company, LLC | 18.00%  | 37/112 |

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| Marilyn Miller, a widow  | SWN Production Company, LLC | 16.00% | 39/443 |
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| Joseph R. N. Miller III, a married man, dealing herein with his separate property  | SWN Production Company, LLC | 16.00% | 39/455 |
| Robert W. Dally, Jr., a single man represented herein by Clifford E. Good, as Power of Attorney  | SWN Production Company, LLC | 18.00% | 39/467 |
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| Beverly Miller, a widow  | SWN Production Company, LLC | 18.00% | 39/479 |
| Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing herein with his separate property, August Robert Alexander, a married man, dealing herein with his separate property, Linda S. Greathouse, a married woman, dealing herein with her separate property, Charlene LeMastes, a married woman, dealing herein with her separate property, Wanda Bennet, a widow, dealing herein with her separate property, Beverly Clifton-Lowe, a married woman, dealing herein with her separate property, Norma Jean Schoene, a married woman, dealing herein with her separate property, Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her separate property | SWN Production Company, LLC | 18.00% | 39/543 |
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| 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 |

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| 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  |
| Bonnie Walter  | SWN Production Company, LLC | 18.00% | 47/48  |
| 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 |
| Sherri Lynn Husic, 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 |
| Pamela Sue Amadril, 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 |

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|     |            | SWN Production Company, LLC<br>(Company owned minerals)  |                             | 386/387 |               |
|     |            | Jerome Williams  | SWN Production Company, LLC | 14.00%  | 53/368        |
| 16) | 03-B36-162 | *Kevin Ryan  |                             |         | 401/305 0.53% |
|     |            | Johanna Ryan, widow, appearing as an Individual and as Executrix of the Estate of Vincent Jason Ryan III   | SWN Production Company, LLC | 18.00%  | 59/43         |
|     |            | Anna May Miller, a widow dealing herein with her separate property   | SWN Production Company, LLC | 18.00%  | 37/112        |
|     |            | James E. Williams, a married man dealing herein with his separate property, and Lois A. Williams, a married woman, dealing herein with her separate property   | SWN Production Company, LLC | 14.00%  | 38/723        |
|     |            | Marilyn Miller, a widow  | SWN Production Company, LLC | 16.00%  | 39/443        |
|     |            | Joanne L. Turner, widow  | SWN Production Company, LLC | 16.00%  | 39/449        |
|     |            | Joseph R. N. Miller III, a married man, dealing herein with his separate property  | SWN Production Company, LLC | 16.00%  | 39/455        |
|     |            | Robert W. Dally, Jr., a single man represented herein by Clifford E. Good, as Power of Attorney  | SWN Production Company, LLC | 18.00%  | 39/467        |
|     |            | Joyce H. Tomalin, represented herein by Attorney-in-Fact   | SWN Production Company, LLC | 18.00%  | 39/473        |
|     |            | Beverly Miller, a widow  | SWN Production Company, LLC | 18.00%  | 39/479        |
|     |            | Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing herein with his separate property, August Robert Alexander, a married man, dealing herein with his separate property, Linda S. Greathouse, a married woman, dealing herein with her separate property, Charlene LeMastes, a married woman, dealing herein with her separate property, Wanda Bennet, a widow, dealing herein with her separate property, Beverly Clifton-Lowe, a married woman, dealing herein with her separate property, Norma Jean Schoene, a married woman, dealing herein with her separate property, Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her separate property | SWN Production Company, LLC | 18.00%  | 39/543        |
|     |            | Marjorie Cook DeShazer, a widow  | SWN Production Company, LLC | 14.00%  | 39/793        |
|     |            | 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        |

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| 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  |
| Bonnie Walter  | SWN Production Company, LLC | 18.00% | 47/48  |
| 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 |
| Sherri Lynn Husic, 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 |

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|     |            | Pamela Sue Amadril, 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<br>(Company owned minerals)   |   |        | 386/387          |       |
|     |            | Jerome Williams   | SWN Production Company, LLC                               | 14.00% | 53/368           |       |
| 17) | 03-B36G-30 | Thomas R. Ullom and Eleanor J. Ullom, husband and wife  | SWN Production Company, LLC                               | 14.00% | 36/622           | 0.00% |
| 18) | 03-B36G-31 | Homer Henthorn and Doris Henthorn, husband and wife   | SWN Production Company, LLC                               | 14.00% | 36/277           | 0.00% |
| 19) | 03-B36G-32 | Homer Henthorn and Doris Henthorn, husband and wife   | SWN Production Company, LLC                               | 14.00% | 36/277           | 0.00% |
| 20) | 03-B36G-33 | Homer Henthorn and Doris Henthorn, husband and wife   | SWN Production Company, LLC                               | 14.00% | 36/277           | 0.00% |
| 21) | 03-B36G-34 | Robert Langley, a married man, dealing herein with his sole and separate property   | SWN Production Company, LLC                               | 18.00% | 36/308           | 0.00% |
| 22) | 03-B36G-35 | Robert Langley, a married man, dealing herein with his sole and separate property   | SWN Production Company, LLC                               | 18.00% | 36/308           | 0.00% |
| 23) | 03-B36G-36 | Robert Langley, a married man, dealing herein with his sole and separate property   | SWN Production Company, LLC                               | 18.00% | 36/308           | 0.00% |
| 24) | 03-B36G-37 | Robert Langley, a married man, dealing herein with his sole and separate property   | SWN Production Company, LLC                               | 18.00% | 36/308           | 0.00% |
| 25) | 03-B36G-47 | Harley J. Lemasters and Rebecca K. Lemasters, husband and wife  | Chesapeake Appalachia, LLC<br>SWN Production Company, LLC | 18.00% | 13/286<br>30/480 | 0.00% |
| 26) | 03-B36-170 | Harley J. Lemasters and Rebecca K. Lemasters, husband and wife  | Chesapeake Appalachia, LLC<br>SWN Production Company, LLC | 18.00% | 14/398<br>30/480 | 0.00% |
| 27) | 03-B36-171 | *Kevin Ryan   |   |        | 401/305          | 0.53% |
|     |            | Johanna Ryan, widow, appearing as an Individual and as Executrix of the Estate of Vincent Jason Ryan III  | SWN Production Company, LLC                               | 18.00% | 59/43            |       |
|     |            | Anna May Miller, a widow dealing herein with her separate property  | SWN Production Company, LLC                               | 18.00% | 37/112           |       |
|     |            | James E. Williams, a married man dealing herein with his separate property, and Lois A. Williams, a married woman, delaine herein with her sperate property | SWN Production Company, LLC                               | 14.00% | 38/723           |       |
|     |            | Marilyn Miller, a widow   | SWN Production Company, LLC                               | 16.00% | 39/443           |       |
|     |            | Joanne L. Turner, widow   | SWN Production Company, LLC                               | 16.00% | 39/449           |       |
|     |            | Joseph R. N. Miller III, a married man, dealing herein with his sperate property  | SWN Production Company, LLC                               | 16.00% | 39/455           |       |
|     |            | Robert W. Dally, Jr., a single man represented hereinby Clifford  | SWN Production Company, LLC                               | 18.00% | 39/467           |       |
|     |            | E. Good, as Power of Attorney   |   |        |                  |       |
|     |            | Joyce H. Tomalin, represented herein by Attorney-in-Fact  | SWN Production Company, LLC                               | 18.00% | 39/473           |       |
|     |            | Beverly Miller, a widow   | SWN Production Company, LLC                               | 18.00% | 39/479           |       |

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| Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing herein with his eperate property, August Robert Alexander, a married man, dealing herein with his separate property, Linda S. Greathouse, a married woman, dealing herein with her sperate property, Charlene LeMastes, a married woman, dealing herein wiht her seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Beverly Clifton-Lowe, a married woman, delaing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property | SWN Production Company, LLC | 18.00% | 39/543 |
| Marjorie Cook DeShazer, a widow  | SWN Production Company, LLC | 14.00% | 39/793 |
| 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 withhis 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 withher 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 |

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| 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   |       |
| Bonnie Walter  | SWN Production Company, LLC | 18.00% | 47/48   |       |
| 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  |       |
| Sherri 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  |       |
| Pamela Sue Amadril, 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<br>(Company owned minerals)  |                             |        | 386/387 |       |
| Jerome Williams  | SWN Production Company, LLC | 14.00% | 53/368  |       |
| *Kevin Ryan  |                             |        | 401/305 | 0.53% |
| Johanna Ryan, widow, appearing as an individual and as Executrix of the Estate of Vincent Jason Ryan III   | SWN Production Company, LLC | 18.00% | 59/43   |       |
| Anna May Miller, a widow dealing herein with her separate property   | SWN Production Company, LLC | 18.00% | 37/112  |       |
| James E. Williams, a married man dealing herein with his separate property, and Lois A. Williams, a married woman, dealing herein with her separate property | SWN Production Company, LLC | 14.00% | 38/723  |       |

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| Marilyn Miller, a widow  | SWN Production Company, LLC | 16.00% | 39/443 |
| Joanne L. Turner, widow  | SWN Production Company, LLC | 16.00% | 39/449 |
| Joseph R. N. Miller III, a married man, dealing herein with his separate property  | SWN Production Company, LLC | 16.00% | 39/455 |
| Robert W. Dally, Jr., a single man represented herein by Clifford E. Good, as Power of Attorney  | SWN Production Company, LLC | 18.00% | 39/467 |
| Joyce H. Tomalin, represented herein by Attorney-in-Fact   | SWN Production Company, LLC | 18.00% | 39/473 |
| Beverly Miller, a widow  | SWN Production Company, LLC | 18.00% | 39/479 |
| Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing herein with his separate property, August Robert Alexander, a married man, dealing herein with his separate property, Linda S. Greathouse, a married woman, dealing herein with her separate property, Charlene LeMastes, a married woman, dealing herein with her separate property, Wanda Bennet, a widow, dealing herein with her separate property, Beverly Clifton-Lowe, a married woman, dealing herein with her separate property, Norma Jean Schoene, a married woman, dealing herein with her separate property, Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her separate property | SWN Production Company, LLC | 18.00% | 39/543 |
| Marjorie Cook DeShazer, a widow  | SWN Production Company, LLC | 14.00% | 39/793 |
| 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 |
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| James Diehl, single  | SWN Production Company, LLC | 14.00% | 41/788 |
| Janice Miller, single  | SWN Production Company, LLC | 14.00% | 41/794 |

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| 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 |
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| 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  |
| Bonnie Walter  | SWN Production Company, LLC | 18.00% | 47/48  |
| 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 |
| Sherri Lynn Husic, 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 |
| Pamela Sue Amadril, 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 |

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|-----|------------------|--|-----------------------------|--------|---------|-------|
|     |                  | SWN Production Company, LLC<br>(Company owned minerals)<br>Jerome Williams |                             |        | 386/387 |       |
| 29) | 01-BB36-23.1     | Beverly Baker  | SWN Production Company, LLC | 14.00% | 53/368  |       |
|     |                  | Darla Bycott   | SWN Production Company, LLC | 18.00% | 47/312  | 0.00% |
|     |                  | Clayton M. Bane  | SWN Production Company, LLC | 18.00% | 47/270  |       |
|     |                  | Doris Ann Matthews Rogus   | SWN Production Company, LLC | 18.00% | 47/276  |       |
|     |                  | James Miller Matthews  | SWN Production Company, LLC | 18.00% | 49/88   |       |
|     |                  | Jean E. Matthews Gressly   | SWN Production Company, LLC | 18.00% | 49/494  |       |
|     |                  | Susan M. Pease   | SWN Production Company, LLC | 18.00% | 49/491  |       |
|     |                  | Bounty Minerals, LLC   | SWN Production Company, LLC | 18.00% | 49/421  |       |
|     |                  |  |                             |        | 43/278  |       |
| 30) | 03-B31-81        | Karen Binswanger, married, dealing herein with her separate property       | SWN Production Company, LLC | 14.00% | 42/19   | 0.00% |
|     |                  | Clara Lee Myers, a single woman  | SWN Production Company, LLC | 15.00% | 40/204  |       |
|     |                  | Peter Brade, married, dealing hereing with his separate property           | SWN Production Company, LLC | 14.00% | 41/690  |       |
|     |                  | George Diehl II, married, dealing hereing with his separate property       | SWN Production Company, LLC | 14.00% | 41/770  |       |
|     |                  | James Diehl, single  | SWN Production Company, LLC | 14.00% | 41/788  |       |
|     |                  | Laurence B. Lane, married, dealing herein with his separate property       | SWN Production Company, LLC | 14.00% | 42/43   |       |
|     |                  | Ray E. Lane, married, dealing herein with his separate property            | SWN Production Company, LLC | 14.00% | 41/696  |       |
|     |                  | Bobette McCormick, married, dealing herein with her separate peoperty      | SWN Production Company, LLC | 14.00% | 41/202  |       |
|     |                  | Dennis Stroh, married, dealing herein with his separate property           | SWN Production Company, LLC | 14.00% | 40/177  |       |
|     |                  | SWN Production Company, LLC  | SWN Production Company, LLC |        | 385/560 |       |
|     |                  | SWN Production Company, LLC  | SWN Production Company, LLC |        | 384/377 |       |
| 31) | 03-B31-82        | Bernard J. Lombard, III  | SWN Production Company, LLC | 18.00% | 36/302  | 0.00% |
| 32) | 01-BB31-65       | Carl H. Ruble, a single man  | SWN Production Company, LLC | 18.00% | 37/673  | 0.00% |
| 33) | 01-BB31-64       | Jason O. Speece, married, dealling in his separate property                | SWN Production Company, LLC | 18.00% | 45/566  | 0.00% |
| 34) | 01-BB31-64.1     | Jason O. Speece, married, dealling in his separate property                | SWN Production Company, LLC | 18.00% | 45/566  | 0.00% |
| 35) | 01-BB31-66       | Wesley K. Allen, a widower   | SWN Production Company, LLC | 18.00% | 37/158  | 0.00% |
| 36) | 01-BB31-67       | Onondaga Holding Company, LLC  | SWN Production Company, LLC | 18.00% | 59/768  | 0.00% |
| 37) | WV STATE ROUTE 2 | RIGHT OF WAY   |                             |        |         |       |
| 38) | 03-B31-8         | Michael A. Byrd, a widower   | SWN Production Company, LLC | 18.00% | 43/198  | 0.00% |
|     |                  | Montez Fredricks, single   | SWN Production Company, LLC | 18.00% | 43/203  |       |
|     |                  | Mary Pearl Thompson, single  | SWN Production Company, LLC | 18.00% | 43/208  |       |
|     |                  | Ameen Malik, single  | SWN Production Company, LLC | 18.00% | 43/213  |       |
|     |                  | Jaffar Malik, single   | SWN Production Company, LLC | 18.00% | 43/218  |       |

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|     |            |  |  |        |                  |       |
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|     |            | Chester Thompson, a married man, dealing herein with his sperate property  | SWN Production Company, LLC  | 18.00% | 43/223           |       |
|     |            | A & G Thompson Group, LLC  | SWN Production Company, LLC  | 18.00% | 43/228           |       |
|     |            | Richard L. Thompson, single  | SWN Production Company, LLC  | 18.00% | 45/284           |       |
|     |            | Paula L. Hasty, a married woman, dealing herein with her separate property   | SWN Production Company, LLC  | 18.00% | 45/289           |       |
|     |            | Carl E. Thompson, single   | SWN Production Company, LLC  | 18.00% | 45/294           |       |
|     |            | J'Kea Thompson, individually, and as Executor of the Estates of James Thompson and Ruth D. Thompson                    | SWN Production Company, LLC  | 18.00% | 45/299           |       |
|     |            | Janay Thompson   | SWN Production Company, LLC  | 18.00% | 48/679           |       |
|     |            | Jasmeen Thompson   | SWN Production Company, LLC  | 18.00% | 48/673           |       |
|     |            | Kenneth J. Thompson, II  | SWN Production Company, LLC  | 18.00% | 48/667           |       |
| 39) | 03-B27-11  | West Virginia Department of Transportation, Division of Highways   | SWN Production Company, LLC  | 20.00% | 53/18            | 0.00% |
| 40) | 03-B31-14  | John Matthew Padden and Elizabeth A. Padden, individually, and as Co-Trustees of The Amy M. Toups Family Trust of 2013 | Fossil Creek Ohio, LLC<br>American Petroleum Partners Operation, LLC | 16.00% | 29/166<br>32/643 | 0.00% |
|     |            |  | SWN Production Company, LLC  |        | 575/22           |       |
| 41) | OHIO RIVER | State of West Virginia Department of Commerce, Division of Natural Resources   | SWN Production Company, LLC  | 20.00% | 55/479           | 0.00% |

\* At least 7 minerals owners in tract and at least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The Interests of the remaining co-tenants will be secured pursuant to the Co-tenancy Modernization and Majority Protection Act.

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4700900325



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

October 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 1H in Brooke County, West Virginia, Drilling under 4576 WV-2, Apple Pie Ridge Road, and Chapel Hill Church Road.

Dear Ms. Adkins:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under 4576 WV-2, Apple Pie Ridge Road, and Chapel Hill Church Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

A handwritten signature in blue ink that reads "Bailey Brougher".

Bailey Brougher  
Landman – SW Appalachia  
SWN Production Company, LLC

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A handwritten signature in red ink that reads "R/A → V+".

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

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

Date of Notice Certification: 10/29

API No. 47- 009 -  
Operator's Well No. Brian Teslovich BRK 1H  
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>531,192.381</u> |
| County:     | <u>009- Brooke</u>   |                           | Northing:               | <u>4451872.398</u> |
| District:   | <u>Buffalo</u>       | Public Road Access:       | <u>McCord Hill Road</u> |                    |
| 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.

|  |   |
|--|---|
| <p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><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</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p> | <p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/<br/>NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/<br/>NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> |
|--|---|

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**Required Attachments:**

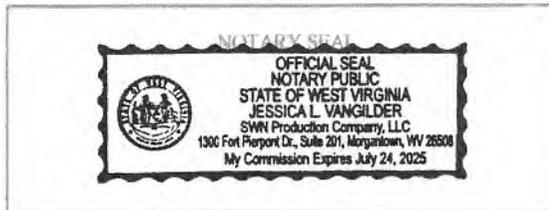
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

|                |                                  |            |  |
|----------------|----------------------------------|------------|--|
| Well Operator: | <u>SWN Production Co., LLC</u>   | Address:   | <u>1300 Fort Pierpont Dr., Suite 201</u> |
| By:            | <u>Brittany Woody</u>            |            | <u>Morgantown, WV 26508</u>              |
| Its:           | <u>Senior Regulatory Analyst</u> | Facsimile: | <u>304-884-1690</u>                      |
| Telephone:     | <u>304-884-1610</u>              | Email:     | <u>Brittany_Woody@swn.com</u>            |

*Brittany Woody*



Subscribed and sworn before me this 31<sup>st</sup> day of August, 2020  
Jessica L. Vangilder Notary Public  
 My Commission Expires 7-24-25

**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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WW-6A  
(9-13)

4700900325  
API NO. 47- 009  
OPERATOR WELL NO. Brian Teslovich BRK 1H  
Well Pad Name: Brian Teslovich BRK

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: 10/29 Date Permit Application Filed: 10/29

Notice of:

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

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: 411 Sunset Drive  
Belle Vernon, PA 15012  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
Name: Winsor 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: \_\_\_\_\_

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\*Please attach additional forms if necessary

**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.depot.state.wv.gov/office/office/coal-and-gas/pages/default.aspx](http://www.depot.state.wv.gov/office/office/coal-and-gas/pages/default.aspx).

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**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.

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

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

**Written Comment:**

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

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Office of Oil and Gas

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WV Department of  
Environmental Protection

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

WW-6A  
(9-13)

4700900325  
API NO. 47- 009 -  
OPERATOR WELL NO. Brian Teslovich BRK 1H  
Well Pad Name: Brian Teslovich BRK

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: 10/29 Date Permit Application Filed: 10/29

Notice of:

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

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: 411 Sunset Drive  
Belle Vernon, PA 15012  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
Name: Winsor 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: \_\_\_\_\_

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\*Please attach additional forms if necessary WV Department of Environmental Protection

**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.depro.state.wv.us/office/office.cfm?and-gas/pages/default.aspx](http://www.depro.state.wv.us/office/office.cfm?and-gas/pages/default.aspx).

OCT 30 2011

**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.

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

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

**Written Comment:**

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

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WV Department of  
Environmental Protection

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

### **Time Limits and Methods for Filing Comments.**

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

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

### **Comment Requirements**

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

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

### **Permit Denial or Condition**

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

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

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

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

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WW-6A  
(8-13)

API NO. 47-009 -  
OPERATOR WELL NO. Brian Teslovich BRK 1H  
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](mailto: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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 31<sup>st</sup> day of Aug. 2020  
Jessica L. Vangilder Notary Public  
My Commission Expires 7-24-25

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WV Department of  
Environmental Protection

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| PARID             | NAME ALL                | OWNER ADDR              | CITY         | STATE | ZIP   | Watersources |
|-------------------|-------------------------|-------------------------|--------------|-------|-------|--------------|
| 03 B3601450000000 | TESLOVICH BRIAN L       | 411 SUNSET DR           | BELLE VERNON | PA    | 15012 | 1            |
| 03 B3601420000000 | ADAMS MARK A & MELODY J | 4762 APPLEPIE RIDGE RD  | WELLSBURG    | WV    | 26070 | 3            |
| 03B36L00420000000 | TOM DONATHON            | 5108 APPLE PIE RIDGE RD | WELLSBURG    | WV    | 26070 | 1            |

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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: 1000 Consol Energy Drive  
Canonsburg, PA 15317

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, -80.633281</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>Tillonsville</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).

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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

OCT 30 2020  
WV Department of  
Environmental Protection

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:** 09/03/2020      **Date Permit Application Filed:** 10/30/20

**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: 411 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 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>531,192.381</u>   |
| County:     | <u>Brooke</u>        |                           | Northing:                  | <u>4,451,872.398</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: \_\_\_\_\_

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**OCT 30 2020**  
WV Department of  
Environmental Protection

**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:** 09/01/2020      **Date Permit Application Filed:** 10/29

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

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 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>531,192.381</u>   |
| County:     | <u>Brooke</u>        |                           | Northing:                  | <u>4,451,872.398</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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WW-6A5  
(1/12)

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

**Notice Time Requirement:** notice shall be provided no later than the filing date of permit application.  
**Date of Notice:** 09/03/2020      **Date Permit Application Filed:** 10/19

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

- CERTIFIED MAIL                                       HAND  
RETURN RECEIPT REQUESTED                                      DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

**Notice is hereby provided to the SURFACE OWNER(s)**  
(at the address listed in the records of the sheriff at the time of notice):

Name: Brian L. Teslovich                                      Name: \_\_\_\_\_  
Address: 411 Sunset Drive                                      Address: \_\_\_\_\_  
Belle Vernon, PA 15012                                      \_\_\_\_\_

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on 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>531,192.381</u>   |
| County:     | <u>Brooke</u>        |                           | Northing:                  | <u>4,451,872.398</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(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator: | <u>SWN Production Company, LLC</u> | Address:   | <u>1300 Fort Pierpont Dr., Suite 201</u> |
| Telephone:     | <u>304-231-8329</u>                |            | <u>Morgantown, WV 26508</u>              |
| Email:         | <u>Reid_Croft@swn.com</u>          | Facsimile: | _____                                    |

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

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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

September 2, 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 1H Well Site

Dear Mr. Martin,

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

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

Very Truly Yours,

Gary K. Clayton, P.E.  
 Regional Maintenance Engineer  
 Central Office O&G Coordinator

Cc: Brittany Woody  
 Southwestern Energy  
 CH, OM, D-6  
 File

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## Attachment VI Frac Additives

4700900325

| 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, Exoxyated 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 |
| 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  |
| Plexslick 930                         | Friction Reducer         | Copolymer of 2-propenamide  | Proprietary |
|                                       |                          | Hydrotreated Distillate   | 64742-47-8  |
|                                       |                          | Sodium Chloride   | 7647-14-5   |
|                                       |                          | Alcohols, C12-16, Exoxyated   | 68551-12-2  |
|                                       |                          | Oleic Acid Diethanolamide   | 93-83-4     |
|                                       |                          | Ammonium Chloride   | 12125-02-9  |
| Plexslick 953                         | Friction Reducer         | Petroleum Distillate  | 64742-47-8  |
|                                       |                          | Sodium Chloride   | 7647-14-5   |
|                                       |                          | Ammonium Chloride   | 12125-02-9  |
|                                       |                          | N,N-bis (2-hydroxyethyl) oleamide   | 93-83-4     |
| Plexslick 957                         | Friction Reducer         | Petroleum Distillate  | 64742-47-8  |
|                                       |                          | Ammonium Chloride   | 12125-02-9  |
|                                       |                          | Oleic Acid Diethanolamide   | 93-83-4     |
|                                       |                          | Alcohols, C12-16, Exoxyated   | 68551-12-2  |
|                                       |                          | Water   | 7732-15-5   |
| WFRA-2000 (U.S. Well Services)        | Anionic Friction Reducer | Hydrotreated light distillate (petroleum)                                       | 64742-47-8  |
|                                       |                          | Propenoic acid, polymer with propenamide  | 9003-06-9   |
| Plexaid 655 NM                        | Scale Inhibitor          | Diethylenetriamine penta (methylene phosphonic acid)                            | 15827-30-8  |
| Plexslick 922                         | no data available        | Copolymer of 2-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 PS50A                         | Biocidal product         | Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups | 397256-50-7 |
| LD-2950                               | Friction Reducer         | Hydrotreated light petroleum distillate   | 64742-47-8  |
|                                       |                          | Ethoxylated alcohol   | Proprietary |
| Legend LD-7750W                       | Scale Control            | Poly (oxy-1,2-ethanediyl) alpha.-tridecyl-.omega.-hydroxy-, branched            | 69011-36-5  |
|                                       |                          | Methanol  | 67-56-1     |
| MC MX 8-4743                          | Specialty Product        | Phosphonic Acid Salt  | Proprietary |
|                                       |                          | Sodium Nitrate  | 7631-99-4   |

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WV Department of  
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**APPROVED**  
**WVDEP OOG**  
1/30/2019

*Handwritten signature and initials*

# BRIAN TESLOVICH WELL PAD SITE PLAN SWN PRODUCTION COMPANY, LLC

LAT./LONG: N 40.216735° W -80.634171°  
(APPROXIMATE CENTER OF PROJECT)

**SHEET INDEX**

|                        |                           |
|------------------------|---------------------------|
| 1. COVER SHEET         | 11. SITE PLAN             |
| 2. GENERAL NOTES       | 12. PROFILES AND SECTIONS |
| 3. MASTER LEGEND       | 13. PROFILES AND SECTIONS |
| 4. MATERIAL QUANTITIES | 14. PROFILES AND SECTIONS |
| 5. BORING LOGS         | 15. PROFILES AND SECTIONS |
| 6. BORING LOGS         | 16. DETAILS               |
| 7. SITE SAFETY PLAN    | 17. DETAILS               |
| 8. SITE SAFETY PLAN    | 18. DETAILS               |
| 9. EXISTING CONDITIONS | 19. DETAILS               |
| 10. ISOPAC-1           | 20. RECLAMATION PLAN      |

**LOCAL EMERGENCY SERVICES**

|                         | NAME                        | TELEPHONE NO   |
|-------------------------|-----------------------------|----------------|
| AMBUULANCE              |                             | 911            |
| HOSPITAL EMERGENCY ROOM | OHIO VALLEY MEDICAL CENTER  | (304) 234-0123 |
| FIRE DEPARTMENT         |                             | 911            |
| POLICE DEPARTMENT       |                             | 911            |
| POISON CONTROL CENTER   | WEST VIRGINIA POISON CENTER | (800) 222-1222 |

**FLOOD PLAIN CONDITIONS**

|   |               |
|---|---------------|
| DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN: | NO            |
| PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:         | NO            |
| HEC-RAS STUDY COMPLETED:                                  | N/A           |
| FLOODPLAIN SHOWN ON DRAWINGS:                             | N/A           |
| FIRM MAP NUMBER(S) FOR SITE:                              | 2-40000201040 |
| INCREASE OF CONSTRUCTION IN FLOODPLAIN:                   | 0.00 AC       |

**PROJECT OWNER/APPLICANT**  
SOUTHWESTERN PRODUCTION COMPANY, LLC  
175 INNOVATION DRIVE  
JANE LEW, WV 26378  
PH: (281) 618-2773  
CONTACT: STEVE VAN HOOK

**CIVIL ENGINEER**  
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
600 MARKETPLACE AVENUE SUITE 200  
BRIDGEPORT, WV 26330  
PH: (304) 933-3110  
CONTACT: JOSEPH D. ROBINSON, P.E.

**WVDOH**  
DISTRICT SIX  
PH: (304) 543-4000  
CONTACT: DISTRICT ENG NEER  
GUS SLAWA D

**SPILL HOTLINE**  
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP)  
PH: (800) 542-3074  
NATIONAL RESPONSE CENTER  
PH: (800) 424-8802



**LOCATION MAP**  
TILTONVILLE USGS 7.5' QUAD  
SCALE IN FEET  
1 INCH = 1000 FEET

**LOCATION COORDINATES**

| SITE LOCATIONS            | WV83-NF (NORTH ZONE) |            | UTM83-17     |             |
|---------------------------|----------------------|------------|--------------|-------------|
|                           | LATITUDE             | LONGITUDE  | NORTHING     | EASTING     |
| MAIN ACCESS ROAD ENTRANCE | 40.216148            | -80.636957 | 4451811.2195 | 530891.8050 |
| CENTROID OF WELL PAD      | 40.216534            | -80.633185 | 4451855.3804 | 531212.0188 |

| L.O.D. AREAS             | DESCRIPTION                      | ACRES | GRADING VOLUMES |            |          |
|--------------------------|----------------------------------|-------|-----------------|------------|----------|
|                          |                                  |       | CUT (CY)        | FILL (CY)  | NET (CY) |
| MAIN ACCESS ROAD         | MAIN ACCESS ROAD                 | 2.84  | 2,170           | 2,461      | -291     |
| WELL PAD                 | WELL PAD                         | 6.17  | 15,457          | 15,614     | 613      |
| TOPSOIL/STRIPPING PILE 1 | SPOIL PILE 1                     | 1.25  | 0               | 552        | -552     |
| SPOIL PILE 1             | TOTAL                            | 1.25  | 18,827          | 18,827     | 0        |
| TOTAL                    | TOPSOIL / STRIPPING (9,408 C.Y.) | 11.42 |                 | 7,840 C.Y. |          |
| WOODED                   | TOTAL EXCAVATION                 | 11.23 | 26,187          | 26,187     | 0        |

**LIMITS OF DISTURBANCE PARCEL BREAK UPS - BRIAN TESLOVICH WELL PAD**

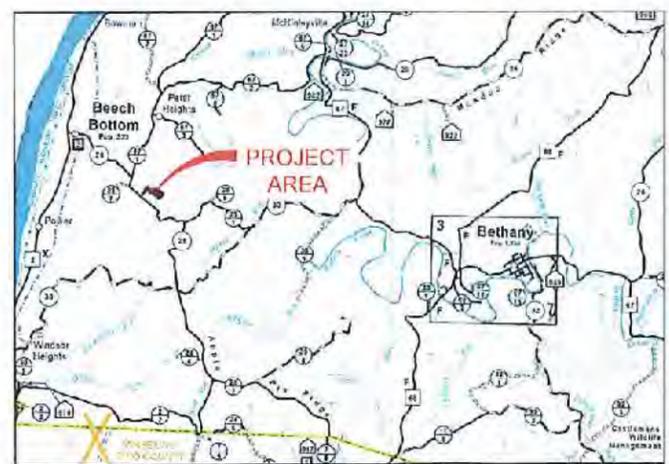
**BROOKE COUNTY, WEST VIRGINIA**

| OWNER               | TM-PARCEL | DEED-PAGE | TOTAL ACRES | TYPE OF DISTURBANCE      | ACERAGE      |
|---------------------|-----------|-----------|-------------|--------------------------|--------------|
| TESLOVICH, BRIAN L. | B36-145   | 345-441   | 50.91       | MAIN ACCESS ROAD         | 2.84         |
|                     |           |           |             | WELL PAD                 | 6.17         |
|                     |           |           |             | TOPSOIL/STRIPPING PILE 1 | 1.25         |
|                     |           |           |             | SPOIL PILE 1             | 1.25         |
|                     |           |           |             | <b>PARCEL TOTAL</b>      | <b>11.42</b> |
|                     |           |           |             | <b>TOTAL</b>             | <b>11.42</b> |

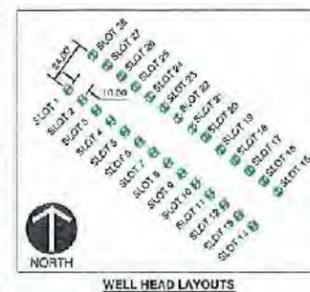
**SWN QUICK ESTIMATE**

| ITEM DESCRIPTION  | UNIT | QUANTITY |
|---|------|----------|
| MOBILIZATION/DEMOLITION (Limited to 10% of Total Base Bid)                  | LS   | 1        |
| CONSTRUCTION LAYOUT   | LS   | 1        |
| STABILIZED CONSTRUCTION ENTRANCE  | EA   | 1        |
| CLEARING & GRUBBING   | AC   | 11.24    |
| EARTHWORK   | C.Y. | 18,627   |
| TOPSOIL REMOVAL, STOCKPILE, AND REDISTRIBUTION                              | C.Y. | 7,840    |
| GEOTEXTILE  | S.Y. | 19,060   |
| EROSION CONTROL SLOPE MATTING   | S.Y. | 5,839    |
| SEEDING, LIME & FERTILIZER  | AC   | 6.47     |
| 12" FILTER SOCK   | L.F. | 2,177    |
| 18" FILTER SOCK   | L.F. | 152      |
| 24" FILTER SOCK   | L.F. | 261      |
| EROSION CONTROL MATTING LINED DITCH   | L.F. | 5,839    |
| 15-IN CMP CULVERT   | L.F. | 54       |
| OUTLET PROTECTION   | EA   | 12       |
| AGGREGATE BASE COURSE, AASHTO NO. 3 (8-IN DEPTH)                            | TON  | 8,979    |
| AGGREGATE SURFACE COURSE, 1-1/2" MINUS (4-IN AVERAGE DEPTH)                 | TON  | 3,592    |
| TOE KEY EXCAVATION MATERIAL   | C.Y. | 2,393    |
| TOE KEY AND BONDING COLLECTION DRAINS TOTAL LENGTH - 4-IN PERFORATED SCH 40 | L.F. | 938      |
| TOE KEY AND BONDING OUTLET DRAINS TOTAL LENGTH - 4-IN SOLID SCH 40          | L.F. | 130      |
| WELL PAD SUMP: TYPE G DROP INLET  | EA   | 4        |
| WELL PAD SUMP OUTLET AND SLOPE PIPE: 4-IN SCH 40 PVC                        | L.F. | 148      |
| 4 IN PVC BALL VALVE   | EA   | 4        |
| RISER PIPE AND T-HANDLE   | EA   | 4        |
| WELL PAD EARTHEN BERM   | L.F. | 1,506    |
| <b>TOTAL</b>  |      |          |

**WEST VIRGINIA 811**  
CALL BEFORE YOU DIG!  
WEST VIRGINIA STATE LAW REQUIRES THAT YOU CALL TWO BUSINESS DAYS BEFORE YOU DIG IN THE STATE OF WEST VIRGINIA. IT'S THE LAW.



**VICINITY MAP**  
BROOKE COUNTY ROAD MAP  
SCALE IN FEET  
1 INCH = 1 MILE



**WELL RESTRICTIONS CHECKLIST (HORIZONTAL GAS WELL)**

|   |     |
|---|-----|
| AT LEAST 100 FEET FROM PAD AND LOD (INCLUDING ANY EAS CONTROL FEATURE) TO ANY PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND. | YES |
| AT LEAST 500 FEET FROM PAD AND LOD (INCLUDING ANY EAS CONTROL FEATURE) TO ANY NATURALLY PRODUCING TROUT STREAM.                   | YES |
| AT LEAST 1000 FEET FROM PAD AND LOD (INCLUDING ANY EAS CONTROL FEATURE) TO ANY GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY.         | YES |
| AT LEAST 50 FEET FROM AN EXISTING WATER WELL OR DEVELOPED SPRING TO WELL BEING DRILLED.   | YES |
| AT LEAST 600 FEET FROM AN OCCUPIED DWELLING OR BUSINESS TO CENTER OF PAD.   | YES |
| AT LEAST 625 FEET FROM AGRICULTURAL BUILDINGS LARGER THAN 2500 SQUARE FEET TO THE CENTER OF THE PAD.                              | YES |

**PLAN REPRODUCTION WARNING**  
THIS PLAN HAS BEEN CREATED ON ANSI D (24" X 36") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE.  
THIS PLAN HAS BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.  
\*\*WARNING\*\*: INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.



**REVISION RECORD**

| NO. | DATE | BY | DESCRIPTION |
|-----|------|----|-------------|
|     |      |    |             |
|     |      |    |             |

**Civil & Environmental Consultants, Inc.**  
600 Marketplace Ave - Suite 200 - Bridgeport, WV 26330  
Ph: 304.933.3119 - 855.486.9639 - Fax: 304.933.3327  
www.civilinc.com

**SWN PRODUCTION COMPANY, LLC**  
**BRIAN TESLOVICH WELL PAD**  
**BUFFALO DISTRICT**  
**BROOKE COUNTY, WEST VIRGINIA**

**COVER SHEET**

DATE: OCTOBER 2018 (DRAWN BY: JDR)  
DWS SCALE: AS SHOWN (CHECKED BY: JDR)  
PROJECT NO: 1755-057  
APPROVED BY: JDR

DRAWING NO.: **C000**  
SHEET 1 OF 20



BRIAN TESLOVICH WELL PAD  
S.W.N. PRODUCTION COMPANY, LLC  
DEVELOPMENT PLAN

LEMESTERS HARLEY J & REBECCA K  
(SURV)  
TM 836 PAR 168  
DB 318 PG 124  
23.70 AC

CONLEY CHARLES & LINDA LOU  
TM 836L PAR 58  
DB 195 PG 384  
5.209 AC

TESLOVICH BRIAN L  
TM 836 PAR 145  
DB 345 PG 441  
50.911 AC

STRAKOH DANNY L & THERESA E  
(SURVIVORSHIP)  
TM 836L PAR 40  
DB 248 PG 225  
2 AC

MASSEY TAMMY S  
TM 836 PAR 39  
DB 382 PG 540  
0.5 AC

TESLOVICH BRIAN L  
TM 836 PAR 145  
DB 345 PG 441  
50.911 AC

BRIAN TESLOVICH WELL PAD  
ELEVATION = 1151.00'  
CENTROID LOCATION  
NAD83 LAT 40.216534  
NAD83 LONG -80.633168

**APPROVED**  
**WVDEP OOG**  
*W/S* 1/30/2019

**LEGEND**

|  |                                   |
|--|-----------------------------------|
|  | EXISTING INDEX CONTOUR            |
|  | EXISTING CONTOUR (INTER)          |
|  | EXISTING TREELINE                 |
|  | EXISTING FENCE LINE               |
|  | EXISTING ROADS (UNPAVED)          |
|  | EXISTING ROADS (PAVED)            |
|  | EXISTING GASLINE                  |
|  | EXISTING OVERHEAD ELECTRIC        |
|  | EXISTING UNDERGROUND WATER LINE   |
|  | EXISTING TAX PARCEL PROPERTY LINE |
|  | EXISTING R/W LINE                 |
|  | EXISTING STREAM                   |
|  | EXISTING WETLAND                  |
|  | PROPOSED INDEX CONTOURS           |
|  | PROPOSED CONTOURS (INTER)         |
|  | DELINEATION STUDY AREA            |
|  | PROPOSED LIMITS OF DISTURBANCE    |
|  | PROPOSED LIMITS OF CLEARING       |
|  | PROPOSED CUT LINE                 |
|  | PROPOSED FILL LINE                |
|  | PROPOSED GRAVEL SURFACE           |
|  | PROPOSED ROAD AREA                |
|  | PROPOSED WELL PAD AREA            |
|  | PROPOSED SPOIL AREA               |

SCALE IN FEET  
0 60 120



**REVISION RECORD**

| NO. | DATE | DESCRIPTION             |
|-----|------|-------------------------|
| 1   |      | INITIAL DESIGN CONCEPTS |

**Civil & Environmental Consultants, Inc.**  
 800 Marketplace Ave - Suite 200 - Bridgeport, WV 26330  
 Ph: 304.933.3119 - 855.488.9539 - Fax: 304.933.3327  
 www.cedcinc.com

**SWN PRODUCTION COMPANY, LLC**  
**BRIAN TESLOVICH WELL PAD**  
**BUFFALO DISTRICT**  
**BROOKE COUNTY, WEST VIRGINIA**

**SITE PLAN**

|              |              |              |     |
|--------------|--------------|--------------|-----|
| DATE:        | OCTOBER 2018 | DRAWN BY:    | JDR |
| SCALE:       | AS SHOWN     | CHECKED BY:  | JDR |
| PROJECT NO.: | 175-057      | APPROVED BY: | JDR |

DRAWING NO. **C300**  
SHEET 11 OF 20

\\swncorp\proj\175-057\175-057-001\175-057-001-001.dwg (175-057-001-001.dwg) - 1/30/2019 10:29 AM



**APPROVED**  
MODIFICATION  
WVDEP 000  
*WSS* 4/13/2020

# BRIAN TESLOVICH WELL PAD SITE PLAN SWN PRODUCTION COMPANY, LLC

RECEIVED  
Office of Oil and Gas

OCT 30 2020

WV Department of  
Environmental Protection

LAT./LONG: N 40.216735° W -80.634171°  
(APPROXIMATE CENTER OF PROJECT)

| LOCAL EMERGENCY SERVICES |                             |                |
|--------------------------|-----------------------------|----------------|
|                          | NAME                        | TELEPHONE NO.  |
| AMBULANCE                |                             | 911            |
| HOSPITAL EMERGENCY ROOM  | OHIO VALLEY MEDICAL CENTER  | (304) 284-0123 |
| FIRE DEPARTMENT          |                             | 911            |
| POLICE DEPARTMENT        |                             | 911            |
| POISON CONTROL CENTER    | WEST VIRGINIA POISON CENTER | (800) 222-1222 |

| FLOOD PLAIN CONDITIONS                                    |              |
|---|--------------|
| DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN: | NO           |
| PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:         | NO           |
| HEC HAS STUDY COMPLETED:                                  | N/A          |
| FLOODPLAIN SHOWS OR DRAWINGS:                             | N/A          |
| FIRM MAP NUMBER(S) FOR SITE:                              | 64002C211000 |
| ACREAGE OF CONSTRUCTION IN FLOODPLAIN:                    | 10.65 AC     |

**PROJECT OWNER/APPLICANT:**  
SOUTHWESTERN PRODUCTION COMPANY, LLC  
178 INNOVATION DRIVE  
JANE LEW, WV 26376  
PH: (201) 518-2223  
CONTACT: STEVE VAN HOOK

**WVDEP:**  
DISTRICT SIX  
PH: (304) 843-4000  
CONTACT: DISTRICT ENGINEER  
GLYS SUWAYD

**CIVIL ENGINEER:**  
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
500 MARKETPLACE AVENUE SUITE 200  
BRIDGEPORT, WV 26330  
PH: (304) 273-3319  
CONTACT: JOSEPH D. ROBINSON, P.E.

**SPILL HOTLINE:**  
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP)  
PH: (800) 642-3074

**NATIONAL RESPONSE CENTER:**  
PH: (800) 424-6852



**LOCATION MAP**  
TILTONSVILLE USGS 7.5 QUAD  
SCALE IN FEET  
1 INCH = 1000 FEET

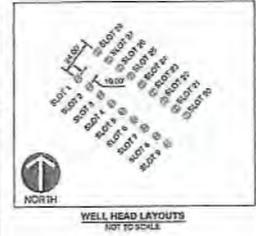
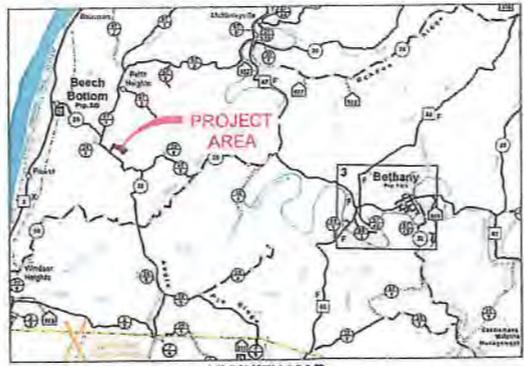
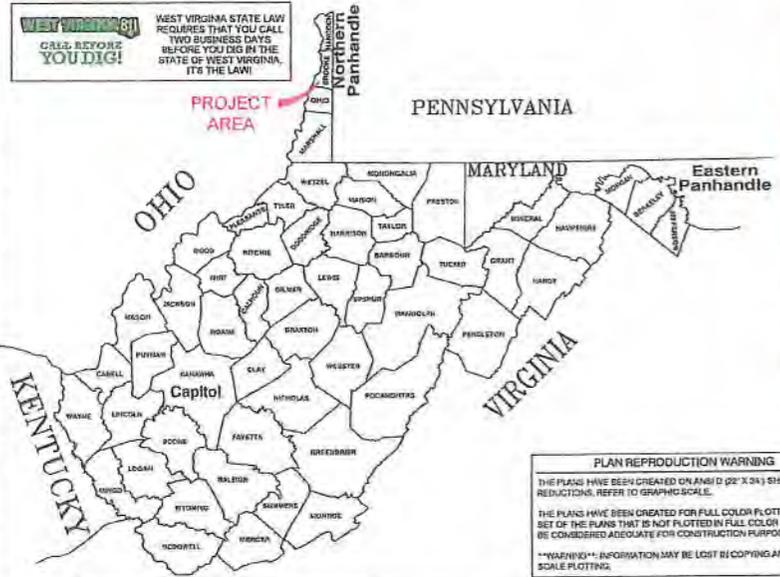
| SITE LOCATIONS            | WV83-NF (NORTH ZONE) |            | UTM83-17     |             |
|---------------------------|----------------------|------------|--------------|-------------|
|                           | LATITUDE             | LONGITUDE  | NORTHINGS    | EASTING     |
| MAIN ACCESS ROAD ENTRANCE | 40.216148            | -80.636957 | 4451811.2195 | 530891.3050 |
| CENTROID OF WELL PAD      | 40.216594            | -80.635186 | 4451855.3804 | 531212.0188 |

| I.O.D. AREAS             | DESCRIPTION                       | ACRES | GRADING VOLUMES |            |          |
|--------------------------|-----------------------------------|-------|-----------------|------------|----------|
|                          |                                   |       | CUT (CY)        | FILL (CY)  | NET (CY) |
| MAIN ACCESS ROAD         | MAIN ACCESS ROAD                  | 2.84  | 3,773           | 6,199      | -2,428   |
| WELL PAD                 | WELL PAD                          | 6.17  | 24,888          | 17,844     | 7,244    |
| TOPSOIL/STRIPPING PILE 1 | SPOIL PILE 1                      | 1.26  | 0               | 4,818      | -4,818   |
| SPOIL PILE 1             | TOTAL                             | 1.15  | 27,661          | 27,661     | 0        |
| TOTAL                    | TOPSOIL / STRIPPING (10,492 C.Y.) | 11.42 |                 | 8,743 C.Y. | 0        |
| LOC WOODED               | TOTAL EXCAVATION                  | 10.29 | 35,494          | 24,404     | 0        |
| WOODED                   |                                   | 11.23 |                 |            |          |

| LIMITS OF DISTURBANCE PARCEL BREAK UPS - BRIAN TESLOVICH WELL PAD |           |           |             |                          |         |
|---|-----------|-----------|-------------|--------------------------|---------|
| BROOKE COUNTY, WEST VIRGINIA                                      |           |           |             |                          |         |
| OWNER   | TM-PARCEL | DEED-PAGE | TOTAL ACRES | TYPE OF DISTURBANCE      | ACERAGE |
| TESLOVICH, BRIAN L.   | 836-145   | 345-441   | 50.91       | MAIN ACCESS ROAD         | 2.84    |
|   |           |           |             | WELL PAD                 | 6.17    |
|   |           |           |             | TOPSOIL/STRIPPING PILE 1 | 1.26    |
|   |           |           |             | SPOIL PILE 1             | 1.15    |
|   |           |           |             | PARCEL TOTAL             | 11.42   |
|   |           |           |             | TOTAL                    | 11.42   |

| SWN QUICK ESTIMATE  |      |          |
|---|------|----------|
| ITEM DESCRIPTION  | UNIT | QUANTITY |
| MOBILIZATION/DEMOLITION (Limited to 10% of Total Base Bid)                  | LS   | 1        |
| CONSTRUCTION LAYOUT   | LS   | 1        |
| STABILIZED CONSTRUCTION ENTRANCE  | EA   | 1        |
| CLEARING & GRUBBING   | AC   | 9.63     |
| EARTHWORK   | C.Y. | 27,661   |
| TOPSOIL REMOVAL, STOCKPILE, AND REDISTRIBUTION                              | C.Y. | 8,735    |
| GEOTEXTILE  | S.Y. | 23,949   |
| EROSION CONTROL SLOPE MATTING   | S.Y. | 5,595    |
| SEEDING, LIME & FERTILIZER  | AC   | 4.70     |
| 12" FILTER SOCK   | L.F. | 2,649    |
| 18" FILTER SOCK   | L.F. | 181      |
| 24" FILTER SOCK   | L.F. | 225      |
| EROSION CONTROL MATTING LINED DITCH   | L.F. | 1,220    |
| RIP-RAP LINED DITCH   | L.F. | 792      |
| 15-IN CMP CULVERT   | L.F. | 97       |
| OUTLET PROTECTION   | EA   | 10       |
| SOIL CEMENT STABILIZATION   | S.Y. | 23,949   |
| AGGREGATE SURFACE COURSE, 2-1/2" MINUS (4-IN AVERAGE DEPTH)                 | TON  | 1,700    |
| RS7 STONE (4-IN MINIMUM DEPTH)  | TON  | 2,825    |
| AASHTO #1 STONE (3-IN AVERAGE DEPTH)  | TON  | 3,770    |
| TOE KEY EXCAVATION MATERIAL   | C.Y. | 5,230    |
| TOE KEY AND BONDING COLLECTION DRAINS TOTAL LENGTH - 4-IN PERFORATED SCH 40 | L.F. | 1,260    |
| TOE KEY AND BONDING OUTLET DRAINS TOTAL LENGTH - 4-IN SOLID SCH 40          | L.F. | 240      |
| WELL PAD SUMP: TYPE G DROP INLET  | EA   | 7        |
| WELL PAD SUMP OUTLET AND SLOPE PIPE: 4-IN SCH 40 PVC                        | L.F. | 500      |
| 4-IN PVC BALL VALVE   | EA   | 7        |
| RISER PIPE AND T-HANDLE   | EA   | 7        |
| WELL PAD EARTHEN BERM   | L.F. | 1,506    |
| <b>TOTAL</b>  |      |          |

**WEST VIRGINIA CALL BEFORE YOU DIG!**  
WEST VIRGINIA STATE LAW REQUIRES THAT YOU CALL TWO BUSINESS DAYS BEFORE YOU DIG IN THE STATE OF WEST VIRGINIA. IT'S THE LAW!



| WELL RESTRICTIONS CHECKLIST (HORIZONTAL 6A WELL)  |     |
|---|-----|
| AT LEAST 100 FEET FROM PAD AND LOC (INCLUDING ANY ERS CONTROL FEATURES TO ANY PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND) | YES |
| AT LEAST 300 FEET FROM PAD AND LOC (INCLUDING ANY ERS CONTROL FEATURES TO ANY NATURALLY FORMING FRESH STREAM)                     | YES |
| AT LEAST 1000 FEET FROM PAD AND LOC (INCLUDING ANY ERS CONTROL FEATURES TO ANY GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY)         | YES |
| AT LEAST 250 FEET FROM AN EXISTING WATER WELL OR DEVELOPED SPRING TO WELL BEING DRILLED   | YES |
| AT LEAST 600 FEET FROM AN OCCUPIED DWELLING STRUCTURE TO CENTER OF PAD  | YES |
| AT LEAST 600 FEET FROM AGRICULTURAL BUILDINGS LARGER THAN 2500 SQUARE FEET TO THE CENTER OF THE PAD                               | YES |

**PLAN REPRODUCTION WARNING**  
THE PLANS HAVE BEEN CREATED ON ANSI D (24" X 36") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE.  
THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.  
\*\*DIMENSIONS\*\* INFORMATION MAY BE LOST BY COPYING AND/OR GRAY SCALE PLOTTING.

SWN PRODUCTION COMPANY, LLC  
1000 PROJECT CENTER DRIVE, SUITE 100  
BROOKE COUNTY, WV 26330

| NO. | DATE | REVISION |
|-----|------|----------|
|     |      |          |
|     |      |          |
|     |      |          |
|     |      |          |

**Civil & Environmental Consultants, Inc.**  
600 Marketplace Ave - Suite 200 - Bridgeport, WV 26330  
PH: 304-833-3119 • RES: 488-8839 • Fax: 304-833-3327  
www.civilinc.com

**SWN PRODUCTION COMPANY, LLC**  
**BRIAN TESLOVICH WELL PAD**  
**BUFFALO DISTRICT**  
**BROOKE COUNTY, WEST VIRGINIA**

**COVER SHEET**  
DATE: FEBRUARY 2020 (ISSUE NO.)  
DRAWN BY: J.S. SHOWN / CHECKED BY: J.S. SHOWN  
PROJECT NO.: 174-007  
APPROVED BY: J.S. SHOWN

