

west virginia department of environmental protection

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

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

Monday, June 29, 2020 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for BRIAN TESLOVICH BRK 5 47-009-00317-00-00

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

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

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

James A. Martin Chief

Operator's Well Number: BRIAN TESLOVICH BRK 5
Farm Name: BRIAN L. TESLOVICH

U.S. WELL NUMBER: 47-009-00317-00-00

Horizontal 6A New Drill Date Issued: 6/29/2020

API Number: 47-009-00317

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

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

API Number: 47-009-00317

PERMIT CONDITIONS

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

WW-6B (04/15) 4700900317

API NO. 47-009

OPERATOR WELL NO. Brian Teslovich BRK 5H

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 B | RK 5H Well Pa | d Name: Brian Teslovich | BRK |
| 3) Farm Name/Sur | face Owner: Brian L. Teslov | vich Public Roa | ad Access: McCord Hill | Road |
| 4) Elevation, curre | ent ground: 1149' | Elevation, proposed | post-construction: 1151' | |
| 5) Well Type (a) Ot |) Gas <u>x</u> Oil _ | Und | erground Storage | |
| (b) |)If Gas Shallow X | Deep | | |
| | Horizontal X | | N IN | > |
| 6) Existing Pad: Y | es or No No | | - (.750 | 4.3.20 |
| 7) Proposed Targe | t Formation(s), Depth(s), Anti | icipated Thickness | and Expected Pressure(s): | Associated Pressure, 3771 |
| | cellus, Up-Dip well to the North, Target Top | TVD-5751, Target Base 1 | | RECEIVED |
| 8) Proposed Total | Vertical Depth: 5786' | | 7 | fice of Oil and Gas |
| 9) Formation at To | otal Vertical Depth: Marcelle | ıs | | MAY 2 0 2020 |
| 10) Proposed Total | l Measured Depth: 19395' | | | V Department of onmental Protection |
| 11) Proposed Hori | zontal Leg Length: 12,885. | 03' | 77/7 | |
| 12) Approximate I | Fresh Water Strata Depths: | 115' | | |
| 13) Method to Det | ermine Fresh Water Depths: | Nearby spring | | |
| Section 10 and a self-alternative research | Saltwater Depths: 405'- Salir | nity Profile | | |
| 15) Approximate (| Coal Seam Depths: 266' | | | |
| 16) Approximate I | Depth to Possible Void (coal r | nine, karst, other): | Possible Void 266' | |
| | d well location contain coal se or adjacent to an active mine? | | No X | |
| (a) If Yes, provid | le Mine Info: Name: | | | |
| | Depth: | | | |
| | Seam: | | | |
| | Owner: | | | |

WW-6B (04/15) APINO. 47-0094 700 900317

OPERATOR WELL NO. Brian Teslovich BRK 5H

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# | 320' | 320' | 323 sx/CTS |
| Coal | See | Surface | Casing | | | | |
| Intermediate | 9 5/8" | New | J-55 | 36# | 1609' | 1609' | 632 sx/CTS |
| Production | 5 1/2" | New | HCP-110 | 20# | 19395' | 19395' | lead 776sx/Tail 3171sx/ 100' Inside Interest |
| Tubing | | | | | | | |
| Liners | | | | | | | |

C-180 4.3.20

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

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PACKERS

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

WW-6B (10/14)

API NO. 47-40970 0 9 0 0 3 1 7

OPERATOR WELL NO, Brian Teslovich BRK 5H
Well Pad Name: Brian Teslovich BRK

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 unites, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

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

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

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24) Describe all cement additives associated with each cement type:

See Attachment ***

WV Department of Environmental Protection

25) Proposed borehole conditioning procedures:

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

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

218006004F

| | | | | 4 1 0 (| 1000041 | |
|--------------------|---------------------------------|--------------------------------|----------------------------|-------------------------------------|---|--------------------|
| | | | CEMENT A | ADDITIVES | 47009008 | |
| INTERVAL | SCHLUMBERGER PRODUCT NAME | BJ PRODUCT NAME | NEXTIER PRODUCT NAME | PRODUCT USE | 7 citerdica (Nama 1 | C AS-Number |
| SURFACE | | INTEGRA SEAL | C1600 | LOST CIRC MATERIAL | CELLOPHANE FLAKES | 9005-81-6 |
| (FRESHWATER) | S001 | A-7P | CJ110 | ACCELERATOR | CALCIUM CHLORIDE | 10043-52-4 |
| COAL PROTECTION | >< | INTEGRA SEAL | C1600 | LOST CIRC MATERIAL | CELLOPHANE FLAKES | 9005-81-6 |
| PROTECTION | S001 | A-7P | CJ110 | ACCELERATOR | CALCIUM CHLORIDE | 10043-52-4 |
| | D020 | BENTONITE | CJ020 | EXTENDER | BENTONITE | 1302-78-9 |
| | D047 | FP 28L | > < | LIQUID ANTIFOAM AGENT | POLYPROPYLENE GLYCOL | 25322-69-4 |
| INTERMEDIATE | >< | INTEGRA SEAL | CJ600 | LOST CIRC MATERIAL | CELLOPHANE FLAKES | 9005-81-6 |
| W. E. W. E. W. E. | CemNet | >< | > < | LOST CIRC MATERIAL | COATED FIBERGLASS FIBERS | PROPRIETARY |
| | SUGAR | SUGAR | CJ795 | CMT RETARDER | SUCROSE | 57-50-1 |
| | S001 | A-7P | CJ110 | ACCELERATOR | CALCIUM CHLORIDE | 10043-52-4 |
| | | $\bigg\rangle\!\!\bigg\rangle$ | CJ111 | ACCELERATOR | SODIUM CHLORIDE | 7440-23-5 |
| | >< | SS-11W | CJ880 | SURFACTANT | NONIONIC SURFACTANT | 6540-99-4 |
| | D047 | FP 28L | \times | LIQUID ANTIFOAM AGENT | POLYPROPYLENE GLYCOL | 25322-69-4 |
| | >< | > < | CJX157011 | SOLID ANTIFOAM AGENT | FULLERS EARTH(ATTAPULGITE) | 8031-18-3 |
| | >< | >< | CJ540 | HP FLUID LOSS ADDITIVE | ALIPHATIC AMIDE POLYMER | PROPRIETARY |
| PRODUCTION | D255 | >< | \times | MED TEMP FLUID LOSS ADDITIVE | POLYACRILIC POLYMER | PROPRIETARY |
| | \sim | | CJ213 | RETARDER | CHRYSTALLINE SILICA | 14808-60-7 |
| | >< | FL-66 | CJ501 | LOW TEMP FLUID LOSS ADD | POWDERED POLYSACCHARIDE | PROPRIETARY |
| | | BENTONITE | CJ020 | EXTENDER | BENTONITE | 1302-78-9 |
| | D208 | ASA-301 | >< | VISCOSIFIER/ANTI- SETTLING AGENT | REFINED POLYMER/ CHRYSTALLINE SILICA | PROPRIETARY |
| | D198 | R-3 | | CEMENT RETARDER | LIGNIN | 8068-51-6 |
| | SUGAR | SUGAR | CJ795 | CEMENT RETARDER | SUCROSE | 57-50-1 |

Proposed Drilling Program Southwestern Energy Company Well: **BRIAN TESLOVICH BRK 5** Re-entry Rig: TBD Field: PANHANDLE FIELD WET Prospect: **PANHANDLE** County: BROOKE State: WV SHL: 40.2167 Latitude -80.6334 Longitude 40.2504 Latitude BHL: -80.6466 Longitude KB Elev: 1,175 ft MSL KB: 26 ft AGL GL Elev: 1,149 ft MSL 0' to 100' Coal Void at 266' TVD 0 ' to 340 ' Air / Mist PROD TOC Lead @ 1,629 ' MD PROD TOC Tail @ 5,100 ' MD 340 to 1,629 Air / Mist TUBULAR DETAIL Size (in) Weight Grade From To Conductor/Coal: 94.0# H-40 0' 100' 1,629 ' to 5,173 ' 20 Air / Mist 320 ' Surf./Coal: 13.375 48.0# H-40 0' 0' 1.609 ' Intermediate: 9.625 36.0# J-55 0 1 Production: 20.0# HCP-110 19,395 5.5 CEMENT DETAIL Class Density Sacks 19.3 Conductor 151 A Surface 323 15.6 Intermediate 632 A 15.6 **Production Lead** 776 15.6 A **Production Tail** 15.6 3171 TD at 5,173 ' Freshwater Depth - 115 'TVD 5,173 'to 6,509 ' KOP at 5,173 ' MD Coal Void Depth - 266 'TVD 12.4 - 12.8 ppg Saltwater Depth - 405 'TVD TVD - 5,786 ' TMD - 19,395 ' TD at 19,395 ' MD 5,636 'TVD 5,786 ' Target Center EOB at 5,786 'TVD 6,509 'to 19,395 ' 12.4 - 12.8 ppg Created by: CR Hall on 06/09/2020

| | Teslovich BRK 5H AOR | | | | | | |
|------------|---|-----------|-----------|------------|-------------|----------------------------|---------------------------------------|
| API | Operator | Status | Latitude | Longitude | Vertical TD | Producing Formation | Producing Zones Not Perforated |
| 4709300053 | Berea Oil and Gas Corporation | N/A | 39.028047 | -79.442466 | N/A | N/A | N/A |
| 4709300054 | Berea Oil and Gas Corporation | N/A | 39.023619 | -79.443045 | 8473 | Oriskany | N/A |
| 4709300057 | Hydrocarbon Exploration, Inc. | N/A | N/A | N/A | N/A | N/A | N/A |
| 4709300047 | Berea Oil and Gas Corporation | N/A | N/A | N/A | N/A | N/A | N/A |
| 4709300045 | Columbia Gas Transmission Corporation | Completed | N/A | N/A | N/A | N/A | N/A |
| 4700900015 | Dr. Michael J. Miller, Jr., dba Joint Venture Company | Plugged | 40.218317 | -80.628013 | 1890 | Berea | N/A |
| 4700900057 | | Completed | 40.230351 | -80.634257 | N/A | N/A | N/A |
| 4709300013 | Columbia Carbon Company | Plugged | 39.171751 | -79.634098 | 9859 | Tuscarora | N/A |
| 4709700151 | Cumberland & Allegheny Gas Company | Plugged | 38.860133 | -80.253003 | 2130 | Fifth | N/A |
| 4709700244 | Cameron Producing | Plugged | 38.916956 | -80.234682 | 4540 | Brallier | N/A |
| 4709300064 | Berea Oil and Gas Corporation | Plugged | 39.089138 | -79.454338 | 9700 | Oriskany | N/A |
| 4709300063 | Cities Service Oil & Gas Corporation | Plugged | 39.220207 | -79.609345 | 9594 | Tuscarora | N/A |

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API Number 47 - 009

Operator's Well No. Brian Teslovich BRK 5H

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 com | plete 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.? RECEIVED Office of Oil and Gas |
| Proposed Disposal Method For Treated Pit Wastes: | 4 10 3 4 4 4 4 |
| Land Application | MAY 2 0 2020 |
| Underground Injection (UIC Perm Reuse (at API Number Atthe next an | it Number Various Approved Facilities WV Department of Environmental Projection |
| Off Site Disposal (Supply form W | W-9 for disposal location) |
| Other (Explain recovery and solidifi | cation on site |
| | |
| Will closed loop system be used? If so, describe: Yes-See A | |
| Drilling medium anticipated for this well (vertical and horizon | tal)? Air, freshwater, oil based, etcAir drill to KOP, fluid drill with SOBM from KOP to TD |
| -If oil based, what type? Synthetic, petroleum, etc\$ | Synthetic Oil Base |
| Additives to be used in drilling medium? Attachment 3B | |
| Drill cuttings disposal method? Leave in pit, landfill, removed | offsite, etc. landfill |
| -If left in pit and plan to solidify what medium will be | e used? (cement, lime, sawdust) |
| -Landfill or offsite name/permit number? Meadowfill SV Apex Sanitary Landtill Ub-U8438, Brooke Co S | /F- 1032, Short Creek SWF-1034,Carbon Limestone MSWL018781, Wetzel County 1021 |
| | Gas of any load of drill cuttings or associated waste rejected at any d within 24 hours of rejection and the permittee shall also disclose |
| on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personall application form and all attachments thereto and that, base | conditions of the GENERAL WATER POLLUTION PERMIT issued irginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable by examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant will of fine or imprisonment. NOTARY PUBLIC OFFICIAL SEAL JESSICA L. VANGILDER State of West Virginia My Comm. Expires Jul 20, 2020 SWN Production Company, LLC 179 Innovation Dr. Jane Lew, WV 26378 |
| Subscribed and sworn before me this 3 rd day of | april , 20 20 |
| Gessica L. Van Milder | Notary Public |
| My commission expires 7-20-20 | |

Operator's Well No. Brian Teslovich BRK 5H

| Proposed Revegetation Treatment: Acres Disturbed | 11.42 | Prevegetation pH | |
|---|-----------------|----------------------------|--|
| Lime as determined by pH test min.2 Tons/acre or to con | rect to pH 6.17 | | |
| Fertilizer type 10-20-20 | | | |
| Fertilizer amount 600/500 | lbs/acre | | RECEIVED Office of Oil and Ga |
| Mulch Hay/Straw | Tons/acre | | MAY 2 0 2020 |
| | | | WV Department of Environmental Protecti |
| | Seed Mixtures | | |
| Temporary | | Permane | nt |
| Seed Type Ibs/acre Attachment 3C | | Seed Type | lbs/acre |
| | | | |
| Maps(s) of road, location, pit and proposed area for l provided). If water from the pit will be land applied, acreage, of the land application area. | et. | x W x D) of the pit, and d | imensions (L x W), and are |
| Attach: Maps(s) of road, location, pit and proposed area for I provided). If water from the pit will be land applied, acreage, of the land application area. Photocopied section of involved 7.5' topographic she Plan Approved by: | et. | | imensions (L x W), and are |
| Maps(s) of road, location, pit and proposed area for I provided). If water from the pit will be land applied, acreage, of the land application area. Photocopied section of involved 7.5' topographic she Plan Approved by: | et. | x W x D) of the pit, and d | imensions (L x W), and are |
| Maps(s) of road, location, pit and proposed area for I provided). If water from the pit will be land applied, acreage, of the land application area. Photocopied section of involved 7.5' topographic she Plan Approved by: | et. | x W x D) of the pit, and d | imensions (L x W), and are |
| Maps(s) of road, location, pit and proposed area for I provided). If water from the pit will be land applied, acreage, of the land application area. Photocopied section of involved 7.5' topographic she | et. | x W x D) of the pit, and d | imensions (L x W), and are |



Attachment 3A

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CLOSED LOOP SYSTEM

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

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

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

AIR DRILLING INTERVALS

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

LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

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

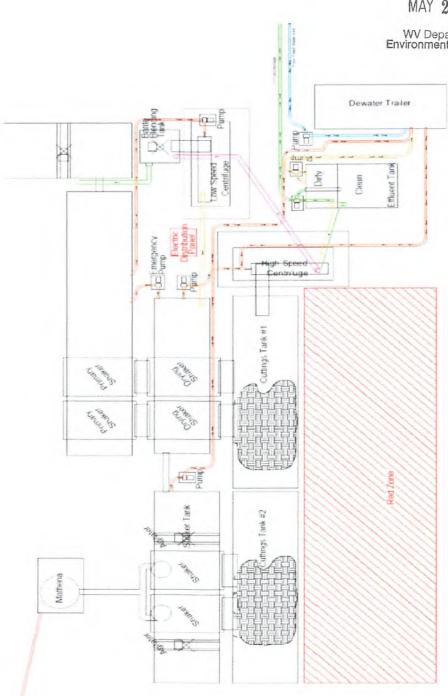
EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM

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Solids Control Layout

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

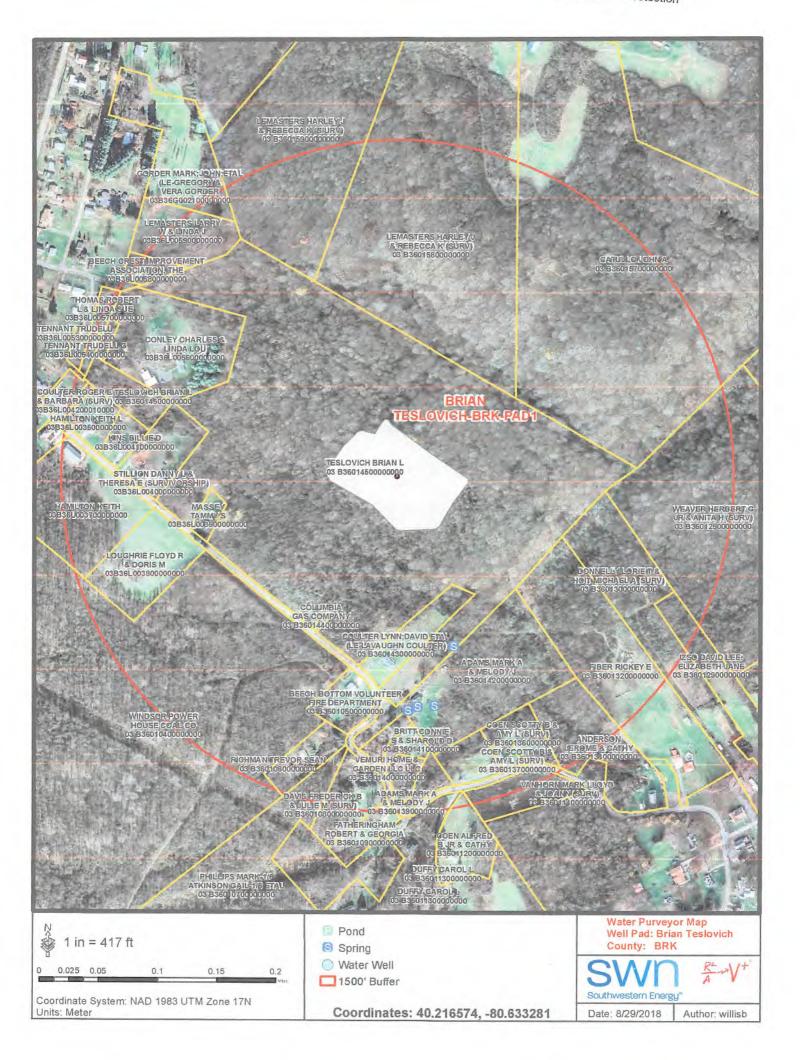
Friction Reducers

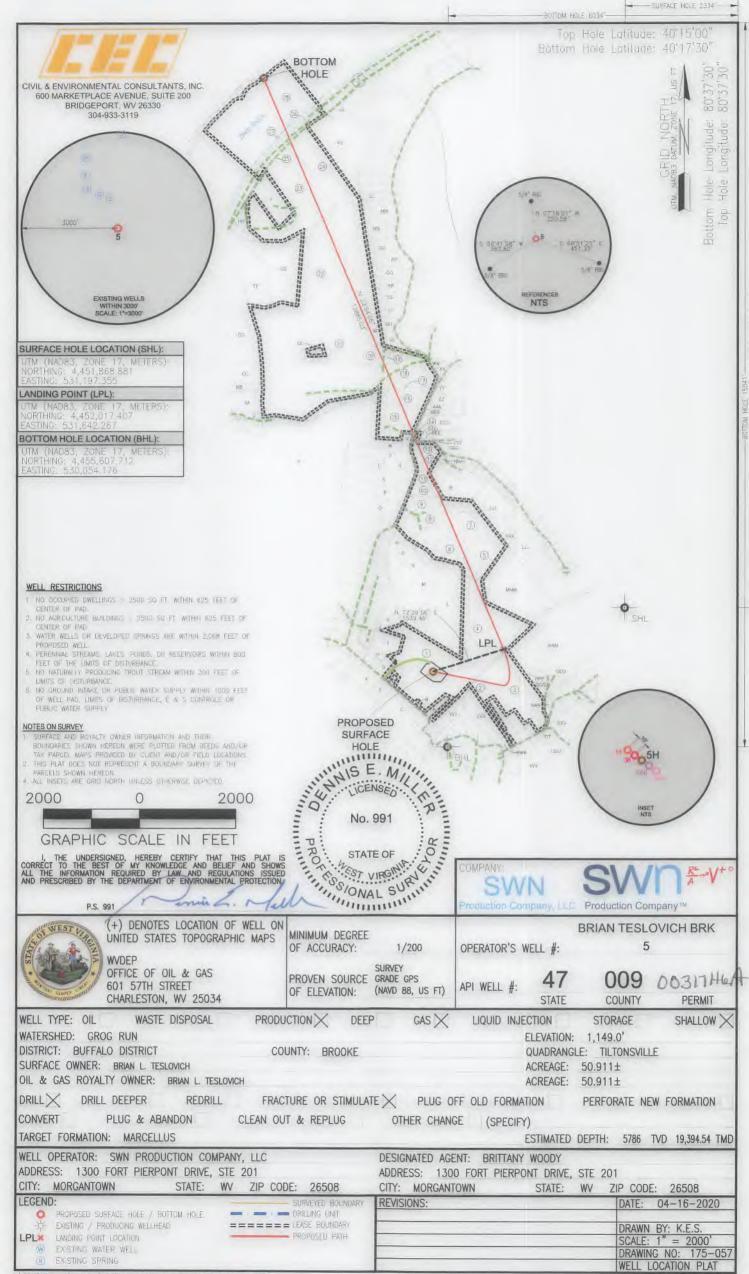


WVD Seeding Specification

| NON-ORGANIC PROPERTIES | TIES ORGANIC PROPER | ORGANIC PROPERTIES | |
|---|---|--|---|
| Seed Mixture: ROW Mix | SWN Supplied | Seed Mixture: SWN Production Organic Mix | c Mix SWN Supplied |
| S | 40% | Organic Timothy | %0% |
| Ga 20 | 15% | Organic Red or White Clover | 50% |
| ED and | 15% | OR | |
| | 5% | Organic Perennial Ryegrass | 50% |
| REC | 5% | Organic Red or White Clover | 50% |
| Red Clover | 5% All legumes are | | |
| Of | inno | Apply @ 100lbs per acre | Apply @ 20016s per acre |
| foil | 5% rate | | |
| Rough Bluegrass | 5% | Organic Fertilizer @ 200lbs per Acre | Pelletized Lime @ 2 Tons per Acre |
| Apply @ 100lbs per acre | Apply @ 200lbs per acre Oct. 15th- April 15th PLUS | | |
| Print | 50lbs per acre of Winter Wheat | WETLANDS (delineated as jurisdictional wetlands) | tional wetlands) |
| SOIL AMENDMENTS | | Seed Mixture: Wetland Mix | SWN Supplied |
| 10-20-20 Fertilizer | *Apply @ 500lbs per Acre | VA Wild Ryegrass | 20% |
| Pelletized Lime | Apply @ 2 Tons per Acre | Annual Ryegrass | 20% |
| | *unless otherwise dictated by soil test results | Fowl Bluegrass | 20% |
| Seeding Calculation Information: | | Cosmos 'Sensation' | 10% |
| 1452' of 30' ROW/LOD is One Acre | | Redtop | 5% |
| 871' of 50' ROW/LOD is One Acre | | Golden Tickseed | 5% |
| 622' of 70' ROW/LOD is One Acre | | Maryland Senna | 5% |
| | | Showy Tickseed | 5% |
| Synopsis: | | Fox Sedge | 2.5% |
| Every 622 linear feet in a 70' ROW/LOD, yo | Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb | Soft Rush | 2.5% |
| bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter | e (2x seed in winter months + 50lb Winter | Woolgrass | 2.5% |
| Wheat/ac). | | Swamp Verbena | 2.5% |
| Special Considerations: | | Apply @ 25lbs per acre | Apply @ 50lbs per acre |
| Landowner Special Considerations including CREP program participants require additional | REP program participants require additional | April 16th- Oct. 14th | Oct. 15th- April 15th |
| 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. | requirements with SWN supervision at the ial seed delivery. | NO FERTILIZER OR LIMI | NO FERTILIZER OR LIME INSIDE WETLAND LIMITS |

MAY 2 0 2020







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

| - | WELL BORE TABLE FOR SURFACE / ROYALTY | | |
|-------|--|-------------|--------|
| TRACT | SURFACE OWNER (S) / ROYALTY OWNER (R) | TAX PARCEL | ACRES |
| 1 | BRIAN L TESLOVICH/SWN PRODUCTION COMPANY, LLC | 03-B36-145 | 50.911 |
| 2 | DONNELLY LORIE T. & HOIT MICHAEL S. (SURV) | 03-B36-130 | 5,75 |
| 3 | MILLER LOUIS | 05-836-125 | 29.47 |
| 4 | JOHN A. CATULLO | Q3-B36-157 | 39.50 |
| 5 | MCCONKEY TIMOTHY T. & CATHERINE (SURV) | 03-B36-155 | 11.90 |
| ō | MCCONKEY TIMOTHY T. & CATHERINE (SURV) | 03-836-154 | 9.00 |
| | MCCONKEY TIMOTHY T. & CATHERINE (SURV) | 03-B36-153 | 18.38 |
| 8 | HEHR JUSTIN W. & DAYNA A. | 03-B36-152 | 10.50 |
| 9 | HEHR JUSTIN | 03-B36-151 | 10.55 |
| 10 | LEMASTERS HARLEY J. & REBECCA K. (SURV) | 03-B36-150 | 3.06 |
| TI | LEMASTERS HARLEY J. & REBECCA K. (SURV) | 03-B36-149 | 2.70 |
| 12 | LEMASTERS HARLEY J. | D3-B36-148 | 3.60 |
| 13 | LEMASTERS HARLEY J. | D3-B36-147 | 4.00 |
| 14 | MATASK REBECCA K. | 03-B36-16 | 0.81 |
| 15 | MATHESS JOSHUA | D3-B31-77 | 12.76 |
| 16 | WALNOHA MICHAEL S | 03-831-78 | 5.15 |
| 17 | WALNOHA MICHAEL S. | D3-B31-79 | 2.77 |
| 18 | WOOLWINE TIMOTHY A & MELINA BETH | 03-B31-80 | 18,42 |
| 19 | WOOLWINE TIMOTHY A & MELINA BETH | 03-B31-80.1 | 1,00 |
| 20 | CROSS REBECCA RUTH | 03-831-81.1 | 5.00 |
| 21 | LOWBARD BERNARD J. II | 03-831-81 | 86.31 |
| 22 | LOMBARD BERNARD J. III | 03-B31-B2 | 100.52 |
| 23 | THOMPSON ET AL & A& G THOMPSON GROUP LLC | 03-831-8 | 45.25 |
| 24 | WALNOHA RAY | 01-B31-6 | 26.00 |
| 25 | BROOKE CO. RT. 2 | | |
| 26 | WEST VIRGINIA DEPARTMENT OF HIGHWAYS | 3-B27-11 | |
| 27 | TOUPS FAMILY TRUST OF 2013 MATTHEW & ELIZ PADDEN-CO-TRUS | 3-831-14 | 10.15 |
| 28 | STATE OF WEST VIRGINIA | | |

| | ADJOINING OWNERS TABLE | 1 | - |
|-------|---|------------|--------|
| TRACT | SURFACE OWNER | TAX PARCEL | ACRES |
| A | COULTER LYNN; DAVID ET AL | 03-B36-143 | 1.28 |
| В | COLUMBIA GAS COMPANY | 03-B36-144 | 0.048 |
| C | WINDSOR POWER HOUSE COAL COMARNY | 03 B36-104 | 87.28 |
| D | TAMMY S. MASSEY | 03-B36L-39 | 0.5 |
| E | LOUGHRIE FLOYD R. & DORIS M. | 03-B36L-38 | 2.80 |
| F | KEITH HAMILTON | 03-B36L-37 | 5.10 |
| G | STILLION DANNY L & THERESA E | 03-B36L-40 | 2.00 |
| H | BRIAN TESLOVICH | 03-B36L-69 | 50.911 |
| | CONLEY CHARLES & LINDA LOU | 03-B36L-56 | 5,209 |
| J | BEECH CREST IMPROVEMENT | 03-B36L-58 | 0.52 |
| K | LEMASTERS LARRY W. & LINDA J. | 03-B36L-59 | 2.31 |
| L | LEMASTERS HARLEY J. & REBECCA K. | 03-B36-158 | 23.70 |
| M | LEMASTERS HARLEY J. & REBECCA K. | 03-B36-159 | 13.00 |
| N | WRIGHT MARKUS K. & PEGGY J. | 03-836-160 | 7.30 |
| 0 | VIAU THOMAS J. JENNIFER J. | 03-B36-161 | 4.65 |
| P | GRAHAM DEBORAH A | 03-B36-162 | 3.21 |
| 0 | LEMASTERS HARLEY V. | 03-B36-170 | 10.00 |
| R | LEONARD BRANNON P. & EMILY M. (SURV) | 03-B36-171 | 7.50 |
| 5 | LEONARD BRANNON P. & EMILY M. (SURV) | 03-B36-172 | 7.80 |
| T | LEONARD PAUL D & KIMBERLY D. (SURV) | 03-B36-173 | 6.15 |
| EJ . | HOFFMAN JOHN R; BUCHANAN ALICE J. | 03-B36-174 | - |
| V | HOFFMAN JOHN R; BUCHANAN ALICE J. | 03-B36-175 | 6.10 |
| W | FODOR STEPHEN A.: BROWNLEE JUDY L. | 03-B36-176 | |
| X | WILSON DAVID CURTIS & HAZEL (SURV) | 03-B36-15 | 0.97 |
| Y | BUSINESS DEV CORP OF THE NORTHERN PANHANDLE | 03-BB36-23 | |
| 7 | | 03-B31-74 | 1.72 |
| - | GARY BUCEY, JEFFREY BUCEY, TIMOTHY BUCEY, KEITH DODD, LYNN DODD, CAROLL LANDMEYER, HENRY WELLS, JR, REBECCA WELLS ROCCA | 03-031-74 | 1.72 |
| AA | BAKER OTIS M. JR & EDNA JO | 03-BB31-19 | 12.21 |
| BB | PELL ALBERT T. & SHELIA (SURV) | 03-BB31-25 | 3.92 |
| CC | LOMBARD BERNARD J. III | 03-831-58 | 8.00 |
| DD | LOMBARD BERNARD J. III | 01-8831-58 | |
| EE | ROBINSON PATRICIA GRAYSON | 03 B31 -83 | 1,00 |
| FF | KOKOSINSKI JOHN T.; JASON JARRETT (SURV) | 01-BB31-64 | 12.44 |
| GG | SCHIAPPA AND COMPANY INC | 03-BB31-65 | 24.60 |
| HH | ONONDAGA HOLDING COMPANY LLC | 01-BB31-67 | 3.33 |
| 11 | ALLEN CHARLES WESLEY | 03-B31-7 | 6.75 |
| JU | HES LIMITED LIABILITY COMPANY | 03-B31-4 | 15.79 |
| KK | WALNOHA RAY | 03-B31-5 | 26.00 |
| II. | PARKS RONALD C | 03-B31-134 | |
| MM | TORBETT WILLIAM E | 03-B31-131 | |

| | ADJOINING OWNERS TABLE | | |
|-------|--|--------------|-------|
| TRACT | SURFACE OWNER | TAX PARCEL | ACRES |
| NN | WEEKLY MARION; GROVES NANCY | D3-B31-130 | 6.08 |
| 00 | GRIMM JAMES W. | 03-B31-129 | 4.71 |
| PP | GRIMM JAMES W. & ROBIN LYNN (SURV) | 03-B31-128 | 4.40 |
| QQ. | GRIMM JAMES W. | 03-B31-127 | 4.95 |
| RR | LEMASTERS HARLEY J. | 03-B31-126 | 3.50 |
| 55 | STEWARD DEBBIE | 03-B31-125 | 3.09 |
| TT | LEMASTERS HARLEY J. | 03-B31-124 | 3.44 |
| UU | LEMASTERS HARLEY J. & REBECCA K. (SURV) | .03-B31-123 | 2.00 |
| VV | COOPER KYLE T. & KATLIN R. | 03-B31-122 | |
| WW | THOMAS BETTY A | 03-831-85 | 0.94 |
| XX | THOMAS ROBERT LEE SR. & LINDA SUE | 03-B31-109 | 1.40 |
| YY | BLAKE LONNIE V. | 03-B31-90 | 5.00 |
| ZZ | BLAKE LONNIE | 03-B31-89 | 29.15 |
| AAA | HUGGINS PERCY E. & DOROTHY I. | 03-B31-88 | 2.00 |
| BBB | LONG JAMES J. & GERALDINE | 03-B31-87 | 2,30 |
| CCC | HILDERBRAND ROBERT D. & CAROLYN (SURV) | 03-B31-86 | 6.07 |
| DDD | GRIZZLE HEYWARD H. & DORA G. | 03-B36-17 | 0.45 |
| FEE | KLOVANISH JOHN JR.: DRAKE RUNDA: BUHL DARLENE | 03-B36-18 | 0.48 |
| FFF | MCLAUGHLIN KENNETH J. SR & KIMBERLY A. (SURV) | 03-B36-19 | 0.37 |
| GGG | LEMASTERS HARLEY J. | 03-B36-147 | 4.00 |
| HHH | ASHBROOK HARRY A. | 03-B36-67 | 0.60 |
| 111 | NORTHERN PANHANDLE BOWMEN GLUB | 03-B36-70 | 11.47 |
| John | ELLIOTT HAROLD EARL | 03-B36-57 | 10.48 |
| KKK | MILLER JOSEPH R. | 03-B36-48 | 2.65 |
| LLL | WALNOHA CAROL | 03-B36-47 | 7.26 |
| MMM | CIUMMO TARQUINIO; EMMA M; ANTONIO (SURV) | 03-B36-156 | 33.53 |
| NNN | LOUGHERY VICKIE C. & SHEENA R. | 03-B37-41 | 41.00 |
| 000 | LEWIS GEORGE M. & JUDY A. (SURV) | 03-B37-41.1 | 5.56 |
| PPP | HUFF JOHN JOSEPH & CHRISTINE C. | 03-B37-116 | 1.08 |
| 000 | NICHOLSON DANIEL A. | 03-B37-117 | 1.10 |
| RRR | GRIZZEL MARK A. (LE-EUGENE & MARGARET GRIZZEL) | 03-B37-113 | 1.25 |
| 588 | FREDERICK & JULIE DAVIS | 03-B37-119 | 23.62 |
| TIT | MATTHEWS LORI FREDERICK & JULIE DAVIS | 03-B37-119.2 | 2.434 |
| UUU | FREDERICK & JULIE DAVIS | 03-B37-119 | 23.62 |
| VVV | HOPKINS DALE V. | 03-B36-124 | 34.11 |
| WWW | CHAPEL HILL CHURCH | 03-B36-131 | 1.10 |
| XXX | RICKEY E. FIBER | 03-B36-132 | 8.46 |
| m | ADAMS MARK A, & MELODY J. | 03-B36-142 | 6.21 |

00317 HGA 47 009 API WELL #: STATE COUNTY

| REVISIONS: | COMPANY: | SWN oduction Company, LLC | SV Production C | Ompany™ | | | |
|------------|-------------------------------|------------------------------|---|-----------------------------------|--|--|--|
| | OPERATOR'S WELL #: | BRIAN TESLOVIC 5 | H BRK | DATE: 04-16-2020 DRAWN BY: K.E.S. | | | |
| | DISTRICT: BUFFALO DISTRICT | COUNTY: BROOKE | SCALE: N/A DRAWING NO: 175-057 WELL LOCATION PLAT 2 | | | | |

WW-6A1 (5/13)

| Operator's | Well No. | Brian Teslovich BRK 5H |
|------------|----------|------------------------|
| | | |

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

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

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

| Lease Name or | | | |
|-----------------|-----------------------|-----------------------|--|
| Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty Book/Page |
| See Exhibit "A" | | | |
| | | | RECEIVED Office of Oil and Gas |
| | | | MAY 2 0 2020 |
| | | | WV Department of Environmental Protection |

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

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

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

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

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

| Well Operator: | SWN Production-Co | ompany, LLC |
|----------------|-------------------|-------------|
| By: | | |
| Its: | Staff Landman | |
| | | |

Page 1 of ____

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator
Brian Teslovich BRK 5H
Brooke County, West Virginia **EXHIBIT A**

| | | | | | | | | 4 | | | | - (1) | 3 | | 2 | | 0 | ffic | RE | CE of C | EIVI | ED | G | р as | Tract |
|-----------------------------|--|---|--|-----------------------------|-------------------------------------|---|--|--|-----------------------------|----------------------------|---------------------------------|------------------|---|-----------------------------|---|------|--|-----------------------------|-----------------------------|-----------------------------|---|-----------------------------|-----------------------------|--------------------------------|--|
| Brack See | | | | | | 3-836-157 | | | | | 3-B36-125 | | 3-B36-130 | En | W | /A | Y Dej ne | 2 par nta | | 20: | 20 | | Tax Parcel | | |
| Beverly Miller, a widow | Joyce H. Tomalin, represented herein by Attorney-in- SWN Production Company, LLC | with his sperate property Robert W. Dally, Jr., a single man represented | Joseph R. N. Miller III, a married man, dealing herein | Joanne L. Turner, widow | property Marilyn Miller, a widow | with his separate property, and Lois A. Williams, a married woman, delaing hereing with her sperate | separate property James E. Williams, a married man dealing herein | Royalty Owners Anna May Miller, a widow dealing herein with her | | | | husband and wife | Herbert G. Weaver, Jr. and Anita H. Weaver, | | Lawrence J. Gribben and Joan M. Gribben, his wife and Lawrence K. Gribben, a single man | wife | Alan Westelin and Sally A. Westelin, husband and | Thomas Leavitt, single | Jean E. Leavitt, single | Mark Leavitt, single | Janet L. Debar, a/k/a Janet Agnew Debar | Martha E. Wakefield | | Mountainer Natural Gas Company | Lessor |
| SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | Chesapeake Appalachia, LLC | Range Resources-Appalachia, LLC | | Great Lakes Energy Partners, LLC | SWN Production Company, LLC | Chesapeake Appalachia, LLC | | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | Chesapeake Appalachia, LLC | Lessee |
| 18.00% | 18.00% | 18.00% | 16.00% | 16.00% | 16.00% | | 14.00% | 18.00% | | | | 1979 | 13% | | 18.0% | | 16.0% | 16.0% | 16.0% | 16.0% | 16.0% | 16.0% | | 17% | Royalty |
| 39/479 | 39/473 | 39/467 | 39/455 | 39/449 | 39/443 | | 38/723 | 37/112 | 30/480 | 10/552 | 20/733 | | 10/149 | 30/480 | 18/599 | | 49/20 | 48/200 | 48/1 | 47/787 | 47/774 | 47/527 | 30/480 | 24/216 | Book/Page |
| | | | | | | | | 1.10% | | | | | 0% | | 0% | | | | | | | | | 0% | Interest Not Leased by SWN Production Company, LLC |

MAY 20 2020

WV Department of Environmental Protection

seperate property, Beverly Clifton-Lowe, a married property, August Robert Alexander, a married man, dealing herein with his separate property, Linda S. married man, dealing herein with his eperate de sir Wo woman, dealing herein with her seperate property, Wanda Bennet, a widow, dealing herein with her her sperate property, Charlene LeMastes, a married Greathouse, a married woman, dealing herein with

| woman, delaing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property | | | |
|---|-----------------------------|--------|--------|
| 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- | SWN Production Company, LLC | 18.00% | 40/7 |
| Fact, Susanne M. Ross | | | |
| Dennis Stron, married, dealing herein with his separate property | SWN Froduction Company, LLC | 14.00% | 40/1// |
| Daniel Branch, a married man, dealing herein withhis | SWN Production Company, LLC | 14.00% | 40/641 |
| separate property Bobbete McCormick, married, dealing herein with her SWN Production Company, LLC | SWN Production Company, LLC | 14.00% | 41/202 |
| separate property Nancy Stratford, flk/a Nancy Miller, widow, | SWN Production Company, LLC | 14.00% | 41/684 |
| Attorney Peter Brade, married, dealing herein with his | SWN Production Company, LLC | 14.00% | 41/690 |
| separate property Ray E. Lane, married, dealing herein with his | SWN Production Company, LLC | 14.00% | 41/696 |
| separate property George Diehl II, married, dealing herein with his | SWN Production Company, LLC | 14.00% | 41/770 |
| separate property | | | |
| 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 | SWN Production Company, LLC | 14.00% | 42/19 |
| separate property Laurence B. Lane, married, dealing herein with his | SWN Production Company, LLC | 14.00% | 42/43 |
| separate property Margaret Miller, single | SWN Production Company, LLC | 14.00% | 42/67 |
| Marjorie Miller Winhoven, married, dealing herein | SWN Production Company, LLC | 18.00% | 42/73 |
| withher separate property Eric Price, married, dealing herein with his separate | SWN Production Company, LLC | 18.00% | 46/786 |
| property Frederick Anton Schneider, widow | SWN Production Company, LLC | 18 00% | 46/176 |
| | Control Company | 10:00 | 10,110 |

EXHIBIT A

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

Brooke County, West Virginia Brian Teslovich BRK 5H

SWN Production Company, LLC

18.00%

39/543

Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a

EXHIBIT A
Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator
Brian Teslovich BRK 5H
Brooke County, West Virginia

| | | | | | | | | | | | | | | | | | | Offi | RE ce c | CEI of Oil | VED and G |
|---|---|---|---|--|---|--|--|---|--|--|---|--|-----------------------------|---|---|---|--|-----------------------------|---|---|--|
| <u>ν</u> | | | | | | | | | | | | | | | | | | | | | 2020 |
| 3-836-155 | | | | | | | | | | | | | | | | | Env | wv | Dep ime | oartn ntal i | nent of Protect |
| Anna May Miller, a widow dealing herein with her separate property James E. Williams, a married man dealing herein with his separate property, and Lois A. Williams, a married woman, delaing hereing with her sperate property | (Company owned minerals) Jerome Williams | William H. M. Ryan SWN Production Company, LLC | Andres Glassow and Karen S. Glassow, husband and wife Sean Timothy Duncan, a divorced man | and wife Mark Bryan Duncan and Cynthia Elizabeth Duncan, husband and wife | Pamela Sue Amadril, a divorced woman Scott G. Duncan and Heather S. Duncan, husband | man Donald Geer and Dolores Ann Geer aka Dee Geer, husband and wife | Arthur D. Stoner aka Art Dwight Stoner, a divorced | Jonathon Montgomery, single Sherri Lynn Hugic, a divorced woman | Jessica Marie Jensen, f/k/a Jessica Givens, married, dealing herein with her separate property | Diane Carol Givens, married, dealing herein with her | Separate property David Drummond, single | Ernest N. Palmer, a widower, dealing herein with his | Benjamin Price, single | married herein with his separate property Bonnie Walter | Separate property Lawrence S. George II, a/k/a Stephen George, | Jean Weaver, married, dealing herein with her | Arjanta Scott, flk/a Arjanta George, married, dealign herein with her separate property | Darrel Pierson, single | Sherrel Novinger, f/k/a Sherrel Pierson, single | Susan Sprouse, flk/a Susan Givens, married, dealing | Christine Herriott, flk/a Christine George, married, dealing herein with her separate property |
| SWN Production Company, LLC SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC SWN Production Company. LLC | SWN Production Company, LLC | SWN Production Company, LLC SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC SWN Production Company, LLC | , SWN Production Company, LLC | SWN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | g SWN Production Company, LLC | SWN Production Company, LLC |
| 18.00% 14.00% | 14.00% | 18.00% | 16.00% 16.00% | 16.00% | 16.00% 16.00% | 16.00% | 16.00% | 14.00% 16.00% | 14.00% | 14.00% | 14.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 14.00% | 14.00% | 14.00% | 18.00% |
| 37/112 38/723 | 53/368 | 57/466 386/387 | 49/300 49/438 | 49/248 | 49/1 49/141 | 48/778 | 48/770 | 50/742 48/706 | 50/754 | 50/733 | 50/721 | 39/461 | 47/607 | 47/48 | 47/30 | 46/774 | 46/768 | 46/495 | 46/483 | 46/296 | 46/182 |

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia

EXHIBIT A

RECEIVED Office of Oil and Gas

MAY 2 0 2020

| Joanne L. Turner, widow | SWN Production Company, LLC | 16.00% | 39/449 |
|---|-----------------------------|--------|--------|
| Joseph K. N. Willer III, a married man, dealing nerein SVN Production Company, LLC with his sperate property | SWN Production Company, LLC | 16.00% | 39/455 |
| Robert W. Dally, Jr., a single man represented | SWN Production Company, LLC | 18.00% | 39/467 |
| Joyce H. Tomalin, represented herein by Attorney-in- | 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, | SWN Production Company, LLC | 18.00% | 39/543 |
| 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 with ther seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Beverly Clifton-Lowe, a married woman, dealing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property. | | | |
| 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 | SWN Production Company, LLC | 14.00% | 40/177 |
| Daniel Branch, a married man, dealing herein withhis | SWN Production Company, LLC | 14.00% | 40/641 |
| Bobbete McCormick, married, dealing herein with her SWN Production Company, LLC | SWN Production Company, LLC | 14.00% | 41/202 |
| separate property Nancy Stratford, flk/a Nancy Miller, widow, represented herein by Margaret Miller as Power of | SWN Production Company, LLC | 14.00% | 41/684 |
| Attorney Peter Brade, married, dealing herein with his | SWN Production Company, LLC | 14.00% | 41/690 |
| separate property Ray E. Lane, married, dealing herein with his | SWN Production Company, LLC | 14.00% | 41/696 |
| separate property George Diehl II, married, dealing herein with his | SWN Production Company, LLC | 14.00% | 41/770 |
| separate property 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 |

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H

EXHIBIT A

Brooke County, West Virginia

RECEIVED Office of Oil and Gas

MAY 2 0 2020

| | | | | | | | | | | | | | | | | | | | | | | CITY | OI III | 011001 | | | | |
|-----------------------------|--|-------------------------------------|--|--|--|---|--|--|-------------------------------------|-----------------------------|--|--|---|--|-----------------------------|-----------------------------|--|---|---|-----------------------------|---|---|--|---|---|---|--|--|
| Jerome Williams | William H. M. Ryan SWN Production Company, LLC | Sean Timothy Duncan, a divorced man | Andres Glassow and Karen S. Glassow, husband | and wife Mark Bryan Duncan and Cynthia Elizabeth Duncan, bushand and wife | Scott G. Duncan and Heather S. Duncan, husband | nuspand and wire Pamela Sue Amadril, a divorced woman | Donald Geer and Dolores Ann Geer aka Dee Geer, | Arthur D. Stoner aka Art Dwight Stoner, a divorced | Sherri Lynn Hugic, a divorced woman | Jonathon Montgomery, single | separate property Jessica Marie Jensen, flk/a Jessica Givens, married, dealing herein with her separate property | Diane Carol Givens, married, dealing herein with her | separate property David Drummond, single | Ernest N. Palmer, a widower, dealing herein with his | Benjamin Price, single | Bonnie Walter | Lawrence S. George II, a/k/a Stephen George, married herein with his senarate property | Jean Weaver, married, dealing herein with her | Arjanta Scott, f/k/a Arjanta George, married, dealign herein with her separate property | Darrel Pierson, single | Sherrel Novinger, f/k/a Sherrel Pierson, single | Susan Sprouse, f/k/a Susan Givens, married, dealing SWN Production Company, LLC herein with her separate porperty | Christine Herriott, flk/a Christine George, married, dealing herein with her separate property | Property Frederick Anton Schneider, widow | Eric Price, married, dealing herein with his separate | Marjorie Miller Winhoven, married, dealing herein | Separate property Margaret Miller, single | Laurence B. Lane, married, dealing herein with his |
| SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC |
| 14.00% | 18.00% | 16.00% | 16.00% | 16.00% | 16.00% | 16.00% | 16.00% | 16.00% | 16.00% | 14.00% | 14.00% | 14.00% | 14.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 14.00% | 14.00% | 14.00% | 18.00% | 18.00% | 18.00% | 18.00% | 14.00% | 14.00% |
| 53/368 | 57/466 386/387 | 49/438 | 49/300 | 49/248 | 49/141 | 49/1 | 48/778 | 48/770 | 48/706 | 50/742 | 50/754 | 50/733 | 50/721 | 39/461 | 47/607 | 47/48 | 47/30 | 46/774 | 46/768 | 46/495 | 46/483 | 46/296 | 46/182 | 46/176 | 46/786 | 42/73 | 42/67 | 42/43 |

EXHIBIT A Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia

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|--|---|----------------|
| | RECEIVED Office of Oil and Gas | |
| | MAY 2 0 2020 | 3-836-154 |
| | WV Department of Environmental Protection | -154 |
| separate property, represented herein by Attorney-in-Fact, Susanne M. Ross Dennis Stroh, married, dealing herein with his separate property Daniel Branch, a married man, dealing herein withhis SWN Production Company, LLC separate property Bobbete McCormick, married, dealing herein with her separate property Nancy Stratford, flk/a Nancy Miller, widow, represented herein by Margaret Miller as Power of Attorney Peter Brade, married, dealing herein with his separate property Ray E. Lane, married, dealing herein with his separate property SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SENTING SWN PRODUCTION COMPANY, LLC SWN PRODUCTION COMP | Anna May Miller, a widow dealing herein with her separate property. James E. Williams, a married man dealing herein with his separate property, and Lois A. Williams, a married woman, delaing hereing with her sperate property. Marilyn Miller, a widow Joanne L. Turner, widow Joseph R. N. Miller III, a married man, dealing herein with his sperate property Robert W. Dally, Jr., a single man represented hereinby Clifford E. Good, as Power of Attorney-In-Fact Beverly Miller, a widow Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing herein with his eperate property, Charlene LeMastes, a married woman, dealing herein with her sperate property, Charlene LeMastes, a married woman, dealing herein with her seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Derothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property. | Royalty Owners |
| SWN Production Company, LLC | | |
| 14.00% 14.00% 14.00% 14.00% 14.00% | 18.00% 16.00% 16.00% 18.00% 18.00% 18.00% | |
| 40/177 40/641 41/202 41/684 41/690 41/696 | 37/112 38/723 39/443 39/449 39/455 39/467 39/473 39/479 39/543 | |
| | | 1.10% |

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

EXHIBIT A

Brian Teslovich BRK 5H Brooke County, West Virginia

RECEIVED Office of Oil and Gas

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| man Donald Geer and Dolores Ann Geer aka Dee Geer, SWN Production Company, LLC husband and wife Pamela Sue Amadril, a divorced woman SWN Production Company, LLC | ald Geer and Dolores Ann Geer aka Dee Geer, band and wife | ald Goor and Doloros Ann Goor aka Doo Goor | | er, a divorced | woman | Jonathon Montgomery, single SWN Production Company, LLC | Jessica Marie Jensen, flk/a Jessica Givens, married, SWN Production Company, LLC dealing herein with her separate property | ried, dealing herein with her | separate property David Drummond, single SWN Production Company, LLC | Ernest N. Palmer, a widower, dealing herein with his SWN Production Company, LLC | Benjamin Price, single SWN Production Company, LLC | Bonnie Walter SWN Production Company, LLC | Lawrence S. George II, a/k/a Stephen George, SWN Production Company, LLC married herein with his separate property | | herein with her separate property Jean Weaver, married, dealing herein with her SWN Production Company, LLC | e, married, dealign | Darrel Pierson, single SWN Production Company, LLC | Sherrel Novinger, flk/a Sherrel Pierson, single SWN Production Company, LLC | Susan Sprouse, f/k/a Susan Givens, married, dealing SWN Production Company, LLC | Christine Herriott, f/k/a Christine George, married, SWN Production Company, LLC dealing herein with her separate property | | withner separate property Eric Price, married, dealing herein with his separate SWN Production Company, LLC | Marjorie Miller Winhoven, married, dealing herein SWN Production Company, LLC | SWN Production Company, LLC | Laurence B. Lane, married, dealing herein with his SWN Production Company, LLC | | Janice Miller, single SWN Production Company, LLC | James Diehl, single | James Branch, single SWN Production Company, LLC | |
|--|--|--|------------------|-------------------|-------------------|---|--|-------------------------------|--|--|--|---|--|---|--|---------------------|--|---|---|--|------------------|--|---|-----------------------------|--|-------------------|---|---------------------|--|------------------|
| | SWN Product | | | | SWN Product | SWN Product | | | SWN Product | | SWN Product | SWN Product | | | | | | | | | | | | SWN Product | | | SWN Product | SWN Product | SWN Product | |
| Joil Company, LLC | ion Company III C | non company, EEC | ion Company II C | tion Company, LLC | tion Company, LLC | lion Company, LLC | tion Company, LLC | ion Company, LLC | ion Company, LLC | tion Company, LLC | tion Company, LLC | tion Company, LLC | tion Company, LLC | | ion Company, LLC | tion Company, LLC | tion Company, LLC | lion Company, LLC | tion Company, LLC | tion Company, LLC | ion Company, LLC | ion Company, LLC | tion Company, LLC | ion Company, LLC | ion Company, LLC | tion Company, LLC | ion Company, LLC | ion Company, LLC | ion Company, LLC | ion Company, LLC |
| 16.00% | 16.00% | 10.00% | 16 00% | 16.00% | 16.00% | 14.00% | 14.00% | 14.00% | 14.00% | 18.00% | 18.00% | 18.00% | 18.00% | | 18 00% | 18.00% | 14.00% | 14.00% | 14.00% | 18.00% | 18.00% | 18.00% | 18.00% | 14.00% | 14.00% | 14.00% | 14.00% | 14.00% | 14.00% | 14.00% |
| 49/141 | 49/1 | 40///0 | 49/779 | 48/770 | 48/706 | 50/742 | 50/754 | 50/733 | 50/721 | 39/461 | 47/607 | 47/48 | 47/30 | 9 | 46/774 | 46/768 | 46/495 | 46/483 | 46/296 | 46/182 | 46/176 | 46/786 | 42/73 | 42/67 | 42/43 | 42/19 | 41/794 | 41/788 | 41/782 | 41/770 |

| Andres Glassow and Karen S. Glassow, husband SWN Pro and wife | Brooke County, West Virgini | Brian Teslovich BRK 5H | Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production C | EXHIBIT A |
|---|-----------------------------|------------------------|--|-----------|
| SWN Production Company, LLC | ginia | I | 읔 | |
| 16.00% | | | pany, LLC, as Operato | |
| 49/300 | | | rator | |
| | | | | |

| Andress Classow and Karen S. Cilassow, husband SWN Production Company, LLC 16.00% and wife Sean Timothy Duncan, a divorced man SWN Production Company, LLC 16.00% 389/387 (Company owned minerals) SWN Production Company, LLC 18.00% 397/368 SWN Production Company, LLC 18.00% 397/368 SWN Production Company, LLC 18.00% 397/368 SWN Production Company, LLC 18.00% 397/32 James E. Williams a married man dealing herein with her separate property and Los A. Williams, a married man dealing herein with his sperate property and Los A. Williams, a married man dealing herein with his sperate property with his separate property with his separate property with his separate property. A single man represented Losenic L. Turner, widow Joseph R. N. Miller II. a married man, dealing herein with her separate property. A single man represented herein by Attorney Joyce H. Tomalin, represented herein by Attorney Joyce H. Tomalin, represented herein by Attorney Joyce H. Tomalin, represented property, Miller, a widow man, dealing herein with his separate property, Chalferle Leavie with his separate property, Wands Benefic with her separate property, Chalferle Leavie with his separate property, Lad Swn Production Company, LLC 18.00% 39/479 Dotted A. Alexander, a married woman, dealing herein with her separate property, Lad Swn Production Company, LLC 18.00% 39/479 Dotted A. Researcher, a married woman, dealing herein with her separate property, Lad Swn Production Company, LLC 18.00% 39/479 Dotted A. Marting herein with her separate property, Lad Swn Production Company, LLC 18.00% 39/479 Dotted A. Marting herein with her separate property, Lad Swn Production Company, LLC 18.00% 39/479 Dotted Benefic with her separate property. Production Company, LLC 18.00% 39/479 Dotted Benefic with her separate property. Production Company, LLC 18.00% 39/479 Swn Production Company, LLC 18.00% 40/77 Separate property and production Company, LLC 18.00% 40/77 Separate property and production Company, LLC 18.00% 40/77 Separate property and production Company, | | RECEIVED Office of Oil and Gas MAY 2 0 2020 WV Department of Environmental Protection | |
|---|--|--|---|
| SWNN Production Company, LLC SWNN Production | Marjorie Cook DeShazer, a widow Robert L. Miller, Jr., married, dealing herein with his separate property, represented herein by Attorney-in Fact, Susanne M. Ross Dennis Stroh, married, dealing herein with his separate property Daniel Branch, a married man, dealing herein withhis separate property | Royalty Owners Anna May Miller, a widow dealing herein with her separate property James E. Williams, a married man dealing herein with his separate property, and Lois A. Williams, a married woman, delaing hereing with her sperate property Marilyn Miller, a widow Joanne L. Turner, widow Joanne L. Turner, widow Joseph R. N. Miller III, a married man, dealing herein with his sperate property Robert W. Dally, Jr., a single man represented hereinby Clifford E. Good, as Power of Attorney Joyce H. Tomalin, represented herein by Attorney-in-Fact Beverly Miller, a widow Donald A. Alexander, a married man, dealing herein with his separate property, Robert Alexander, a married man, dealing herein with his separate property, Linda S. Greathouse, a married woman, dealing herein with her seperate property, Charlene LeMastes, a married woman, dealing herein with her seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property. | Andres Glassow and Karen S. Glassow, husband and wife Sean Timothy Duncan, a divorced man William H. M. Ryan SWN Production Company, LLC (Company owned minerals) Jerome Williams |
| | | | SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC |
| 49/300 49/438 57/466 386/387 53/368 53/368 37/112 39/43 39/443 39/455 39/455 39/457 39/473 39/477 39/543 40/77 40/641 | 14.00% 18.00% 14.00% 14.00% | 18.00% 14.00% 16.00% 16.00% 18.00% 18.00% | 16.00% 16.00% 18.00% 14.00% |
| | 39/793 40/7 40/177 40/641 | 37/112 38/723 38/723 39/443 39/455 39/467 39/473 39/479 39/543 | 49/300 49/438 57/466 386/387 53/368 |

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| | 48/706 | 16.00% | SWN Production Company, LLC | Sherri Lynn Hugic, a divorced woman |
|-------------|--------|--------|--------------------------------|---|
| | 50/742 | 14.00% | SWN Production Company, LLC | Jonathon Montgomery, single |
| | | | | dealing herein with her separate property |
| | 50/754 | 14.00% | SWN Production Company, LLC | separate property Jessica Marie Jensen, f/k/a Jessica Givens, married, |
| | 50/733 | 14.00% | SWN Production Company, LLC | Diane Carol Givens, married, dealing herein with her |
| | 50/721 | 14.00% | SWN Production Company, LLC | Separate property David Drummond, single |
| | 39/461 | 18.00% | SWN Production Company, LLC | Ernest N. Palmer, a widower, dealing herein with his |
| | 47/607 | 18.00% | SWN Production Company, LLC | Benjamin Price, single |
| | 47/48 | 18.00% | SWN Production Company, LLC | Bonnie Walter |
| | 47/30 | 18.00% | SWN Production Company, LLC | Lawrence S. George II, a/k/a Stepnen George, married herein with his separate property |
| | | | | separate property |
| | 46/774 | 18.00% | SWN Production Company, LLC | Jean Weaver, married, dealing herein with her |
| | 46/768 | 18.00% | SWN Production Company, LLC | Arjanta Scott, f/k/a Arjanta George, married, dealign |
| | 46/495 | 14.00% | SWN Production Company, LLC | Darrel Pierson, single |
| | 46/483 | 14.00% | SWN Production Company, LLC | Sherrel Novinger, flk/a Sherrel Pierson, single |
| | 46/296 | 14.00% | SWN Production Company, LLC | Susan Sprouse, flk/a Susan Givens, married, dealing herein with her separate porperty |
| | | | | dealing herein with her separate property |
| | 46/182 | 18.00% | SWN Production Company, LLC | Christine Herriott, f/k/a Christine George, married, |
| | 46/176 | 18.00% | SWN Production Company, LLC | property Frederick Anton Schneider, widow |
| | 46/786 | 18.00% | SWN Production Company, LLC | with ricr separate property Eric Price, married, dealing herein with his separate |
| | 42/73 | 18.00% | SWN Production Company, LLC | Marjorie Miller Winhoven, married, dealing herein |
| | 42/67 | 14.00% | SWN Production Company, LLC | Margaret Miller, single |
| | į | - ::00 | | separate property |
| | 42/43 | 14 00% | SWN Production Company, LLC | separate property Laurence B. Lane. married. dealing herein with his |
| | 42/19 | 14.00% | SWN Production Company, LLC | Karen Binswanger, married, dealing herein with her |
| | 41/794 | 14.00% | SWN Production Company, LLC | Janice Miller, single |
| | 41/788 | 14.00% | SWN Production Company, LLC | James Diehl, single |
| | 41/782 | 14.00% | SWN Production Company, LLC | James Branch, single |
| | 41///0 | 14.00% | Syvin Floddiction Company, EEC | Separate property |
| | 1770 | 4 000 | SWAI Broduction Company 110 | separate property |
| | 41/696 | 14.00% | SWN Production Company, LLC | separate property Ray E. Lane, married, dealing herein with his |
| | 41/690 | 14.00% | SWN Production Company, LLC | Peter Brade, married, dealing herein with his |
| | | | | Attorney |
| | 41/684 | 14.00% | SWN Production Company, LLC | Nancy Stratford, flk/a Nancy Miller, widow, represented herein by Marraret Miller as Power of |
| | 41/202 | 14.00% | · SWN Production Company, LLC | Bobbete McCormick, married, dealing herein with her SWN Production Company, LLC separate property |

EXHIBIT A Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia

| | | | | | | | | 8 | | | | | | | | | | |
|---|--|-----------------------------|---|--|-----------------------------|------------------------------------|---|--|-----------------------------|--|-----------------------------|-------------------------------------|---|--|---|--------------------------------------|--|--|
| *************************************** | | | • | | | | | | | | | | Office | RECE of C | EIVED | d G | as | |
| | | | | | | | | 3-B: | | | | | | | 0 20 | | | |
| | | | | | | | | 3-836-152 | | | | - - | WV [| Depa | rtmer | nt of | f | |
| | | | | | | | | | | | | ΕN | vironr | nent | ai Pro | nec | liO13 | |
| Marjorie Cook DeShazer, a widow | Beverly Miller, a widow Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing herein with his eperate property, August Robert Alexander, a married man, dealing herein with his separate property, Linda S. Greathouse, a married woman, dealing herein with her sperate property, Charlene LeMastes, a married woman, dealing herein with her seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Beverly Clifton-Lowe, a married woman, dealing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Borothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property. | ey-in- | with his sperate property Robert W. Dally, I., a single man represented hereinby Clifford F. Good, as Power of Attorney | Joseph R. N. Miller III, a married man, dealing herein | Joanne L. Turner, widow | property Marilyn Miller a widow | separate property James E. Williams, a married man dealing herein with his separate property, and Lois A. Williams, a married woman, delaing hereing with her sperate | Royalty Owners Anna May Miller, a widow dealing herein with her | Jerome Williams | SWN Production Company, LLC (Company owned minerals) | William H. M. Ryan | Sean Timothy Duncan, a divorced man | Andres Glassow and Karen S. Glassow, husband and wife | Mark Bryan Duncan and Cynthia Elizabeth Duncan, husband and wife | Scott G. Duncan and Heather S. Duncan, husband and wife | Pamela Sue Amadril, a divorced woman | Indii Donald Geer and Dolores Ann Geer aka Dee Geer, husband and wife | Arthur D. Stoner aka Art Dwight Stoner, a divorced |
| SWN Production Company, LLC | SWN Production Company, LLC SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company 11 C | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC |
| 14.00% | 18.00% 18.00% | 18.00% | 18.00% | 16.00% | 16.00% | 16 00% | 14.00% | 18.00% | 14.00% | | 18.00% | 16.00% | 16.00% | 16.00% | 16.00% | 16.00% | 16.00% | 16.00% |
| 39/793 | 39/543 39/543 | 39/473 | 39/467 | 39/455 | 39/449 | 30/443 | 38/723 | 37/112 | 53/368 | 386/387 | 57/466 | 49/438 | 49/300 | 49/248 | 49/141 | 49/1 | 48/778 | 48/770 |
| | | | | | | | | 1.10% | | | | | | | | | | |

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WV Department of

| Ray E. Lane. married, dealing herein with his | separate property | Attorney Peter Brade, married, dealing herein with his | Significant represented herein by Margaret Miller as Power of | Nancy Stratford, f/k/a Nancy Miller, widow, | e e separate property | ಡ್ Bobbete McCormick, mar | | separate property | ਿਲੇ Dennis Stroh, married, dealing herein with his | Fact, Susanne M. Ross | separate property, represe | Robert L. Miller, Jr., marri |
|---|-------------------|---|---|---|-----------------------|---|--|-------------------|--|-----------------------|---|--|
| ling herein with his | | lina herein with his | garet Miller as Power of | cy Miller, widow, | | ied, dealing herein with her | nan, dealing herein withhis | | aling herein with his | | separate property, represented herein by Attorney-in- | ed, dealing herein with his |
| SWN Production Company, LLC | | SWN Production Company, LLC | | SWN Production Company, LLC | | Bobbete McCormick, married, dealing herein with her SWN Production Company, LLC | Daniel Branch, a married man, dealing herein withhis SWN Production Company, LLC | | SWN Production Company, LLC | | | Robert L. Miller, Jr., married, dealing herein with his SVVN Production Company, LLC |
| 14.00% | | 14.00% | | 14.00% | | 14.00% | 14.00% | | 14.00% | | | 18.00% |
| 41/696 | | 41/690 | | 41/684 | | 41/202 | 40/641 | | 40/177 | | | 40/7 |

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia

EXHIBIT A

| | | | | | | | | | | | | | | | | | | | | | | | | | | Env | virc | nm | ental |
|--|--|-----------------------------|---|---|---|---|-----------------------------|---|---|---|--|---|---|-------------------------------|---|--|---|--|-----------------------------|-----------------------------|-----------------------------|---|-------------------|---|-------------------|--|---|---|--|
| separate property David Drummond, single | Ernest N. Palmer, a widower, dealing herein with his | Benjamin Price, single | married herein with his separate property Bonnie Walter | separate property Lawrence S. George II, a/k/a Stephen George, | herein with her separate property Jean Weaver, married, dealing herein with her | Arjanta Scott, f/k/a Arjanta George, married, dealign | Darrel Pierson, single | herein with her separate porperty Sherrel Novinger, f/k/a Sherrel Pierson, single | Susan Sprouse, flk/a Susan Givens, married, dealing SWN Production Company, LLC | dealing herein with her separate property | Christine Herriott, flk/a Christine George, married, | Property Frederick Anton Schneider, widow | Eric Price, married, dealing herein with his separate | withher senarate property | Notice of Millor Wishous mountains about the second | separate property Margaret Miller, single | separate property Laurence B. Lane, married, dealing herein with his | Karen Binswanger, married, dealing herein with her | Janice Miller, single | James Diehl, single | James Branch, single | George Diehl II, married, dealing herein with his separate property | separate property | Ray E. Lane, married, dealing herein with his | separate property | Attorney Peter Brade, married, dealing herein with his | represented herein by Margaret Miller as Power of | Nancy Stratford, f/k/a Nancy Miller, widow, | separate property Bobbete McCormick, married, dealing herein with her SWN Production Company, LLC separate property |
| SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | Svely Floadction Company, LEC | OWN Distinction Company | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | | SWN Production Company, LLC | • | SWN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company, LLC |
| 14.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 14.00% | 14.00% | 14.00% | | 18.00% | 18.00% | 18.00% | 18.00% | 10000 | 14 00% | 14.00% | 14.00% | 14.00% | 14.00% | 14.00% | 14.00% | | 14.00% | | 14.00% | | 14.00% | 14.00% |
| 50/721 | 39/461 | 47/607 | 47/48 | 47/30 | 46/774 | 46/768 | 46/495 | 46/483 | 46/296 | į | 46/182 | 46/176 | 46/786 | 42//3 | | 42/67 | 42/43 | 42/19 | 41/794 | 41/788 | 41/782 | 41/770 | | 41/696 | | 41/690 | | 41/684 | 41/202 |

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EXHIBIT A Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia

| | | | | | | | | | | 9 | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--------------------------------|------------------------------|--|-----------------------------|-----------------------------|-----------------------------|--|---|-----------------------------|----------------|-----------------------------|--------------------------|-----------------------------|-----------------------------|-------------------------------------|--------------|-------------------------------|-----------|---|---------------------------------------|-----------------------------|--|----------|-----------------------------|-------------------------------------|-----------------------------|---|--|--------------------------------------|
| | | | | | | | | | | 3-836-151 | | | | | | | | | | | N | ffice MAN | 2 | , 0 art |) 2 me | 02(|) of | | |
| | | _ | | | | | | | <i>~</i> ~ | _ | | ا۔ | | ا | ا ده | l o s | _ | . | | | nvir | onr | nen | tal | Pr | ote | ctior | | , m |
| Beverly Miller, a widow | Fact | | with his sperate property Robert W. Dally, Jr., a single man represented brosheby Clifford E. Cood, as Bower of Attornov | married man, dealing herein | Joanne L. Turner, widow | | with this separate property, and cois A. visitatis, a married woman, delaing hereing with her sperate property | James E. Williams, a married man dealing herein | | Royalty Owners | Jerome Williams | (Company owned minerals) | SWN Production Company, LLC | William H. M. Ryan | Sean Timothy Duncan, a divorced man | and wife | and Karen S. Glassow, husband | | Mark Bryan Duncan and Cynthia Elizabeth Duncan. | Duncan and Heather S. Duncan, husband | dril, a divorced woman | Donaid Geer and Dolores Ann Geer aka Dee Geer, husband and wife | | er, a divorced | Sherri Lynn Hugic, a divorced woman | Jonathon Montgomery, single | dealing herein with her separate property | Jessica Marie Jensen, f/k/a Jessica Givens, married, | ns, married, dealing herein with her |
| SWN Production Company, LLC | Gyviv Floodiction Company, EEC | SWAI Draduction Company II C | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company, LLC | | SWN Production Company, LLC | | | SWN Production Company, LLC | SWN Production Company, LLC | | SWN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SVVN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company, LLC |
| 18.00% | 10.00% | 10 000 | 18.00% | 16.00% | 16.00% | 16.00% | | 14.00% | 18.00% | | 14.00% | | | 18.00% | 16.00% | | 16.00% | | 16.00% | 16.00% | 16.00% | 16.00% | | 16.00% | 16.00% | 14.00% | | 14.00% | 14.00% |
| 39/479 | 39/4/3 | 201472 | 39/467 | 39/455 | 39/449 | 39/443 | | 38/723 | 37/112 | | 53/368 | | 386/387 | 57/466 | 49/438 | | 49/300 | | 49/248 | 49/141 | 49/1 | 48/7/8 | | 48/770 | 48/706 | 50/742 | | 50/754 | 50/733 |
| | | | | | | | | | | 1.10% | | | | | | | | | | | | | | | | | | | |

MAY 2 0 2020

WV Department of Environmental Protection

EXHIBIT A

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

Brian Teslovich BRK 5H

Brooke County, West Virginia

| | | | property |
|--------|--------|-----------------------------|--|
| 46/786 | 18.00% | SWN Production Company, LLC | withher separate property Eric Price, married, dealing herein with his separate |
| 42/73 | 18.00% | SWN Production Company, LLC | Marjorie Miller Winhoven, married, dealing herein |
| 42/67 | 14.00% | SWN Production Company, LLC | separate property Margaret Miller, single |
| 42/43 | 14.00% | SWN Production Company, LLC | , married, dealing herein with his |
| 42/19 | 14.00% | SWN Production Company, LLC | Karen Binswanger, married, dealing herein with her |
| 41/794 | 14.00% | SWN Production Company, LLC | Janice Miller, single |
| 41/788 | 14.00% | SWN Production Company, LLC | James Diehl, single |
| 41/782 | 14.00% | SWN Production Company, LLC | separate property James Branch, single |
| 41/770 | 14.00% | SWN Production Company, LLC | separate property George Diehl II, married, dealing herein with his |
| 41/696 | 14.00% | SWN Production Company, LLC | separate property Ray E. Lane, married, dealing herein with his |
| 41/690 | 14.00% | SWN Production Company, LLC | Peter Brade, married, dealing herein with his |
| 41/684 | 14.00% | SWN Production Company, LLC | separate property Nancy Stratford, f/k/a Nancy Miller, widow, represented herein by Margaret Miller as Power of |
| 41/202 | 14.00% | SWN Production Company, LLC | Bobbete McCormick, married, dealing herein with her SWN Production Company, LLC |
| 40/641 | 14.00% | SWN Production Company, LLC | narried man, dealing herein withhis |
| 40/177 | 14.00% | SWN Production Company, LLC | Dennis Stroh, married, dealing herein with his |
| 40/7 | 18.00% | SWN Production Company, LLC | Robert L. Miller, Jr., married, dealing herein with his separate property, represented herein by Attorney-in-Fact, Susanne M. Ross |
| 39/793 | 14.00% | SWN Production Company, LLC | Marjorie Cook DeShazer, a widow |
| 39/543 | 18.00% | SWN Production Company, LLC | 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 with ther 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, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property |

EXHIBIT A
Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator
Brian Teslovich BRK 5H
Brooke County, West Virginia

| | | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|--|--|-----------------------------|--------------------------|-----------------------------|-----------------------------|-------------------------------------|-------------------------------|----------------------------|--|--|--------------------------------------|---|-----|--|-------------------------------------|-----------------------------|--|--|-----------------------------|--|-----------------------------|-----------------------------|---|--|---|-----------------------------|---|---|--|
| | | | Ψ | | | | | | | | | | | | | | | | | | | | | (| R Office | ECEI of Oil | VEC I and | d G | as | | |
| | | | 3-836-150 | | | | | | | | | | | | | | | | | | | | | | MAY | 20 | 20 |)2(|) | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Env | WV Do | epart ental | mer Pro | nt c | of otion | ì | |
| property Marilyn Miller, a widow | with his separate property, and Lois A. Williams, a married woman, delaing hereing with her sperate | separate property James E. Williams, a married man dealing herein | Royalty Owners Anna May Miller, a widow dealing herein with her | Jerome Williams | (Company owned minerals) | SWN Production Company, LLC | William H. M. Ryan | Sean Timothy Duncan, a divorced man | and wife | husband and wife | arid wile Mark Bryan Duncan and Cynthia Elizabeth Duncan, | Scott G. Duncan and Heather S. Duncan, husband | Pamela Sue Amadril, a divorced woman | Donald Geer and Dolores Ann Geer aka Dee Geer, husband and wife | man | Arthur D. Stoner aka Art Dwight Stoner, a divorced | Sherri Lynn Hugic, a divorced woman | Jonathon Montgomery, single | Separate property Jessica Marie Jensen, f/k/a Jessica Givens, married, dealing herein with her separate property | Diane Carol Givens, married, dealing herein with her | David Drummond, single | Ernest N. Palmer, a widower, dealing herein with his | Benjamin Price, single | Bonnie Walter | separate property Lawrence S. George II, a/k/a Stephen George, married herein with his separate property | nerein with her separate property Jean Weaver, married, dealing herein with her | Arjanta Scott, flk/a Arjanta George, married, dealign | Darrel Pierson, single | Sherrel Novinger, f/k/a Sherrel Pierson, single | Susan Sprouse, f/k/a Susan Givens, married, dealing | Christine Herriott, flk/a Christine George, married, dealing herein with her separate property |
| SWN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | | | SWN Production Company, LLC | SWN Production Company, LLC | Covin i concessi Company, EEC | SWN Production Company 110 | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | • | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC |
| 16.00% | | 14.00% | 18.00% | 14.00% | | | 18.00% | 16.00% | 6.00 | 16 000 | 16.00% | 16.00% | 16.00% | 16.00% | | 16.00% | 16.00% | 14.00% | 14.00% | 14.00% | 14.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 18.00% | 14.00% | 14.00% | 14.00% | 18.00% |
| 39/443 | | 38/723 | 37/112 | 53/368 | | 386/387 | 57/466 | 49/438 | #9/300 | 10/200 | 49/248 | 49/141 | 49/1 | 48/778 | | 48/770 | 48/706 | 50/742 | 50/754 | 50/733 | 50/721 | 39/461 | 47/607 | 47/48 | 47/30 | 46/774 | 46/768 | 46/495 | 46/483 | 46/296 | 46/182 |
| | | | 1.10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MAY 20 2020

| Brooke County, West Virginia | Brian Teslovich BRK 5H | Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator | |
|------------------------------|------------------------|--|--|
|------------------------------|------------------------|--|--|

| separate property | | | ngle | separate property | s | 0 , | Peter Brade, married, dealing herein with his | separate property Nancy Stratford, f/k/a Nancy Miller, widow, represented herein by Margaret Miller as Power of Attorney | separate property Bobbete McCormick, married, dealing herein with her SWN Production Company, LLC | narried man, dealing herein withhis | ried, dealing herein with his | Robert L. Miller, Jr., married, dealing herein with his separate property, represented herein by Attorney-in-Fact, Susanne M. Ross | Marjorie Cook DeShazer, a widow | I married man, dealing herein arry, Ronnie L. Alexander, a erein with his eperate of Alexander, a married man, separate property, Linda S. woman, dealing herein with sharlene LeMastes, a married with ther seperate property, which herein with herein woman, dealing the property, Dorothy Craft, a sostle, a married woman, seperate property | erly Miller, a widow | ey-in- | with this speciate property Robert W. Dally, Jr., a single man represented hereinby Clifford F Good, as Power of Attorney | married man, dealing herein |
|------------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------------|----------------------------|-----------------------------|---|--|--|-------------------------------------|-------------------------------|--|---------------------------------|---|-----------------------------|-----------------------------|---|---|
| SAMA Floduction Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | Gyvin Floudection Company, EEC | SWN Production Company 110 | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC SWN Production Company, LLC |
| 14.00% | 14.00% | 14.00% | 14.00% | 14.00% | 14 00% | 14.00% | 14.00% | 14.00% | 14.00% | 14.00% | 14.00% | 18.00% | 14.00% | 18.00% | 18.00% | 18.00% | 18.00% | 16.00% 16.00% |
| 42/19 | 41/794 | 41/788 | 41/782 | + 7770 | 41/770 | 41/696 | 41/690 | 41/684 | 41/202 | 40/641 | 40/177 | 40/7 | 39/793 | 39/543 | 39/479 | 39/473 | 39/467 | 39/449 39/455 |

MAY 2 0 2020

WV Department of Environmental Protection

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia

| Jerome Williams | SWN Production Company, LLC | William H. M. Ryan | Sean Timothy Duncan, a divorced man | Andres Glassow and Karen S. Glassow, husband and wife | Mark Bryan Duncan and Cynthia Elizabeth Duncan, husband and wife | Scott G. Duncan and Heather S. Duncan, husband | Pamela Sue Amadril, a divorced woman | Donald Geer and Dolores Ann Geer aka Dee Geer, | Arthur D. Stoner aka Art Dwight Stoner, a divorced man | Sherri Lynn Hugic, a divorced woman | Jonathon Montgomery, single | Jessica mane Jensen, inva Jessica Givens, manned, dealing herein with her separate property | ried. dealing herein with her | separate property David Drummond, single | Ernest N. Palmer, a widower, dealing herein with his | Benjamin Price, single | Bonnie Walter | married herein with his separate property | separate property Lawrence S. George II, a/k/a Stephen George, | herein with her separate property Jean Weaver, married, dealing herein with her | Arjanta Scott, f/k/a Arjanta George, married, dealign | Darrel Pierson, single | Sherrel Novinger, flk/a Sherrel Pierson, single | ns, married, dealing | Christine Herrott, IK/a Christine George, married, dealing herein with her separate property | Frederick Anton Schneider, widow | property | withher separate property Eric Price, married, dealing herein with his separate | Marjorie Miller Winhoven, married, dealing herein | Margaret Miller, single | Laurence B. Lane, married, dealing herein with his |
|-----------------------------|-----------------------------|-----------------------------|-------------------------------------|---|--|--|--------------------------------------|--|---|-------------------------------------|-----------------------------|---|-------------------------------|---|--|-----------------------------|-----------------------------|---|---|--|---|-----------------------------|---|-----------------------------|--|----------------------------------|----------|--|---|-----------------------------|--|
| SWN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Froduction Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SVVN Production Company, LLC | SWN Production Company, LLC | | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC |
| 14.00% | | 18.00% | 16.00% | 16.00% | 16.00% | 16.00% | 16.00% | 16.00% | 16.00% | 16.00% | 14.00% | 14.00% | 14 00% | 14.00% | 18.00% | 18.00% | 18.00% | | 18.00% | 18.00% | 18.00% | 14.00% | 14.00% | 14.00% | 18.00% | 18.00% | | 18.00% | 18.00% | 14.00% | 14.00% |
| 53/368 | 386/387 | 57/466 | 49/438 | 49/300 | 49/248 | 49/141 | 49/1 | 48/778 | 48/770 | 48/706 | 50/742 | 50//54 | 50/733 | 50/721 | 39/461 | 47/607 | 47/48 | | 47/30 | 46/774 | 46/768 | 46/495 | 46/483 | 46/296 | 46/182 | 46/176 | 9 | 46/786 | 42/73 | 42/67 | 42/43 |

11 RECEIVED Office of Oil and Gas MAY 20 2020 3-B36-149 WV Department of Environmental Protection Anna May Miller, a widow dealing herein with her Bobbete McCormick, married, dealing herein with her SWN Production Company, LLC Daniel Branch, a married man, dealing herein withhis SWN Production Company, LLC separate property, represented herein by Attorney-in-Robert L. Miller, Jr., married, dealing herein with his property, August Robert Alexander, a married man Beverly Miller, a widow Joyce H. Tomalin, represented herein by Attorney-inwith his separate property, and Lois A. Williams, a James E. Williams, a married man dealing herein separate property Royalty Owners separate property separate property Dennis Stroh, married, dealing herein with his single woman, Nancy Postle, a married woman, herein with her seperate property, Dorothy Craft, a woman, delaing herein with her seperate property seperate property, Beverly Clifton-Lowe, a married her sperate property, Charlene LeMastes, a married Greathouse, a married woman, dealing herein with dealing herein with his separate property, Linda S. married man, dealing herein with his eperate with his separate property, Ronnie L. Alexander, a Donald A. Alexander, a married man, dealing herein hereinby Clifford E. Good, as Power of Attorney Robert W. Dally, Jr., a single man represented with his sperate property Joseph R. N. Miller III, a married man, dealing herein Marilyn Miller, a widow married woman, delaing hereing with her sperate Ray E. Lane, married, dealing herein with his separate property Peter Brade, married, dealing herein with his represented herein by Margaret Miller as Power of separate property Fact, Susanne M. Ross Marjorie Cook DeShazer, a widow dealing herein with her seperate property Norma Jean Schoene, a married woman, dealing Wanda Bennet, a widow, dealing herein with her woman, dealing herein wiht her seperate property, separate property Nancy Stratford, f/k/a Nancy Miller, widow, SWN Production Company, LLC **SWN Production Company, LLC** SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC 14.00% 14.00% 14.00% 14.00% 14.00% 18.00% 18.00% 14.00% 18.00% 14.00% 14.00% 18.00% 18.00% 16.00% 18.00% 16.00% 16.00% 41/696 41/684 39/479 39/473 39/449 38/723 37/112 41/690 41/202 40/641 40/177 39/793 39/543 39/467 39/455 39/443 40/7 1.10%

EXHIBIT A

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

Brian Teslovich BRK 5H Brooke County, West Virginia

RECEIVED Office of Oil and Gas

MAY 2 0 2020

WV Department of Environmental Protection Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H

EXHIBIT A

Brooke County, West Virginia

| | | | husband and wife |
|--------|--------|------------------------------|---|
| 49/248 | 16.00% | SWN Production Company, LLC | and wife Mark Bryan Duncan and Cynthia Elizabeth Duncan, |
| 49/141 | 16.00% | SWN Production Company, LLC | Scott G. Duncan and Heather S. Duncan, husband |
| 49/1 | 16.00% | SWN Production Company, LLC | Pamela Sue Amadril, a divorced woman |
| 48/778 | 16.00% | SWN Production Company, LLC | Donald Geer and Dolores Ann Geer aka Dee Geer, hishand and wife |
| 48/770 | 16.00% | SWN Production Company, LLC | Arthur D. Stoner aka Art Dwight Stoner, a divorced man |
| 48/706 | 16.00% | SWN Production Company, LLC | Sherri Lynn Hugic, a divorced woman |
| 50/742 | 14.00% | SWN Production Company, LLC | Jonathon Montgomery, single |
| 50/754 | 14.00% | SWN Production Company, LLC | Jessica Marie Jensen, trk/a Jessica Givens, married, dealing herein with her separate property |
| | | | |
| 50/733 | 14.00% | SWN Production Company, LLC | Diane Carol Givens, married, dealing herein with her |
| 50/721 | 14 00% | SWN Production Company 110 | separate property |
| 39/461 | 18.00% | SWN Production Company, LLC | Ernest N. Palmer, a widower, dealing herein with his |
| 47/607 | 18.00% | SWN Production Company, LLC | Benjamin Price, single |
| 47/48 | 18.00% | SWN Production Company, LLC | Bonnie Walter |
| 47/30 | 18.00% | SWN Production Company, LLC | Lawrence S. George II, a/k/a Stephen George, married herein with his separate property |
| 46/774 | 18.00% | SWN Production Company, LLC | Jean Weaver, married, dealing herein with her separate property |
| | | | herein with her separate property |
| 46/768 | 18.00% | SWN Production Company, LLC | Arjanta Scott, f/k/a Arjanta George, married, dealign |
| 46/495 | 14.00% | SWN Production Company, LLC | Darrel Pierson, single |
| 46/483 | 14.00% | SWN Production Company, LLC | Sherrel Novinger, f/k/a Sherrel Pierson, single |
| 46/296 | 14.00% | SWN Production Company, LLC | Susan Sprouse, flk/a Susan Givens, married, dealing SWN Production Company, LLC herein with her senarate normerly |
| 201 | 70.00 | Critical Company, EEC | dealing herein with her separate property |
| 16/182 | 18 00% | SWN Production Company 110 | Christine Herriott f/k/a Christine George married |
| 46/176 | 18.00% | SWN Production Company, LLC | property Frederick Anton Schneider, widow |
| 46/786 | 18.00% | SWN Production Company, LLC | Eric Price, married, dealing herein with his separate |
| 42/73 | 18.00% | SWN Production Company, LLC | Marjorie Miller Winhoven, married, dealing herein withher senarate property |
| 42/67 | 14.00% | SWN Production Company, LLC | Margaret Miller, single |
| 42/43 | 14.00% | SWN Production Company, LLC | |
| 1213 | 1.00% | Control Company, EEC | separate property |
| 41//94 | 14.00% | SWN Production Company, LLC | |
| #1700 | 14.00% | CWN Dradication Company, LEC | |
| 41/788 | 14 00% | SWN Production Company 11C | |
| 41/782 | 14 00% | SWN Production Company 11 C | g separate property O lames Branch single |
| 41/770 | 14.00% | SWN Production Company, LLC | George Diehl II, married, dealing herein with his |

EXHIBIT A Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia

| | 12 | |
|---|---|---|
| | RECEIVED Office of Oil and Gas MAY 2 0 2020 WV Department of Environmental Protection | |
| Marjorie Cook DeShazer, a widow Robert L. Miller, Jr., married, dealing herein with his separate property, represented herein by Attorney-in-Fact, Susanne M. Ross Dennis Stroh, married, dealing herein with his separate property Daniel Branch, a married man, dealing herein withhis separate property Bobbete McCormick, married, dealing herein with her SWN Production Company, LLC separate property | Royalty Owners Anna May Miller, a widow dealing herein with her separate property James E. Williams, a married man dealing herein with his separate property, and Lois A. Williams, a married woman, dealing hereing with her sperate property Marilyn Miller, a widow Joanne L. Turner, widow Joanne L. Turner, widow Joseph R. N. Miller III, a married man, dealing herein with his sperate property Robert W. Dally, Jr., a single man represented hereinby Clifford E. Good, as Power of Attorney-in-Fact Beverly Miller, a widow Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing herein with his separate property, Linda S. Greathouse, a married woman, dealing herein with her sperate property, Charlene LeMastes, a married woman, dealing herein with her seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Norma, dealing herein with her seperate property, Norma, Jean Schoene, a married woman, dealing herein with her seperate property, Norma, Jean Schoene, a married woman, dealing herein with her seperate property, Norma, Jean Schoene, a married woman, dealing herein with her seperate property. | Andres Glassow and Karen S. Glassow, husband and wife Sean Timothy Duncan, a divorced man William H. M. Ryan SWN Production Company, LLC (Company owned minerals) |
| SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC |
| 14.00% 18.00% 14.00% 14.00% | 18.00% 16.00% 16.00% 16.00% 18.00% 18.00% | 16.00% 16.00% 18.00% |
| 39/793 40/7 40/177 40/641 41/202 | 37/112 38/723 38/723 39/443 39/449 39/455 39/467 39/479 39/479 39/543 | 49/300 49/438 57/466 386/387 |
| | 1.10% | |

RECEIVED Office of Oil and Gas

MAY 20 2020

WV Department of Environmental Protection

EXHIBIT A Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia

| Nancy Stratford, f/k/a Nancy Miller, widow, represented herein by Margaret Miller as Power of Attorney Peter Brade, married, dealing herein with his separate property Ray E. Lane, married, dealing herein with his separate property George Diehl II, married, dealing herein with his separate property | SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC | 14.00% 14.00% 14.00% 14.00% |
|--|---|--------------------------------------|
| James Branch, single James Diehl, single Janice Miller, single Karen Binswanger, married, dealing herein with her | SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC | 14.00% 14.00% 14.00% 14.00% |
| separate property Laurence B. Lane, married, dealing herein with his separate property Margaret Miller, single | SWN Production Company, LLC SWN Production Company, LLC | 14.00% 14.00% |
| Margaret Miller, single Marjorie Miller Winhoven, married, dealing herein withher separate property Eric Price, married, dealing herein with his separate | SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC | 14.00% 18.00% 18.00% |
| property Frederick Anton Schneider, widow Christine Herriott, f/k/a Christine George, married, dealing herein with her separate property | SWN Production Company, LLC SWN Production Company, LLC | 18.00% 18.00% |
| Susan Sprouse, flk/a Susan Givens, married, dealing SWN Production Company, LLC herein with her separate porperty Sherrel Novinger, flk/a Sherrel Pierson, single SWN Production Company, LLC | SWN Production Company, LLC SWN Production Company, LLC | 14.00% 14.00% |
| Darrel Pierson, single Arjanta Scott, flk/a Arjanta George, married, dealign herein with her separate property Jean Weaver, married, dealing herein with her | SWN Production Company, LLC SWN Production Company, LLC | 14.00% 18.00% 18.00% |
| Separate property Lawrence S. George II, a/k/a Stephen George, married herein with his separate property Bonnie Walter | SWN Production Company, LLC SWN Production Company, LLC | 18.00% 18.00% |
| Benjamin Price, single Ernest N. Palmer, a widower, dealing herein with his separate property Decid December of single | SWN Production Company, LLC SWN Production Company, LLC | 18.00% 18.00% |
| single s, married, dealing herein with her sen, flk/a Jessica Givens, married, her separate property | SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC | 14.00% 14.00% 14.00% |
| Jonathon Montgomery, single Sherri Lynn Hugic, a divorced woman Arthur D. Stoner aka Art Dwight Stoner, a divorced man | SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC | 14.00% 16.00% 16.00% |

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia

EXHIBIT A

| | | | | | | | | | _ | | L | 8 | | | | | | |
|---------------------------------|--|--|--|--|-----------------------------|--|---|--|-----------------------------|--------------------------|-----------------------------|-----------------------------|-------------------------------------|--|--|---|---|--|
| | | | | | | | | ä | | | | | | | | | | |
| | | | F Office MAY WV D vironn | 2 | 0 2 | 020 | | 3-836-14/ | | | | | | | | | | |
| Marjorie Cook DeShazer, a widow | Beverly Miller, a widow Donald A. Alexander, a married man, dealing herein with his separate property, Ronnie L. Alexander, a married man, dealing herein with his eperate property, August Robert Alexander, a married man, dealing herein with his separate property, Linda S. Greathouse, a married woman, dealing herein with her sperate property, Charlene LeMastes, a married woman, dealing herein with ther seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Wanda Bennet, a widow, dealing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Norma Jean Schoene, a married woman, dealing herein with her seperate property, Dorothy Craft, a single woman, Nancy Postle, a married woman, dealing herein with her seperate property | Joyce H. Tomalin, represented herein by Attorney-in- Fact | Robert W. Dally, Jr., a single man represented hereinby Clifford E. Good, as Power of Attorney | Joseph R. N. Miller III, a married man, dealing herein with his sperate property | Joanne L. Turner, widow | married woman, delaing nereing with ner sperate property Mariko Miller a widow | separate property James E. Williams, a married man dealing herein with his separate property, and Lois A. Williams, a | Anna May Miller, a widow dealing herein with her | Jerome Williams | (Company owned minerals) | SWN Production Company, ILC | William H. M. Ryan | Sean Timothy Duncan, a divorced man | Andres Glassow and Karen S. Glassow, husband | Mark Bryan Duncan and Cynthia Elizabeth Duncan, husband and wife | Scott G. Duncan and Heather S. Duncan, husband and wife | husband and wife Pamela Sue Amadril, a divorced woman | Donald Geer and Dolores Ann Geer aka Dee Geer, |
| SWN Production Company, LLC | SWN Production Company, LLC SWN Production Company, LLC | - SWN Production Company, LLC | SWN Production Company, LLC | | SWN Production Company, LLC | SWN Droduction Company 110 | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | | | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company 11 C | SWN Production Company, LLC |
| 14.00% | 18.00% 18.00% | 18.00% | 18.00% | 16.00% | 16.00% | 16 00% | 14.00% | 18.00% | 14.00% | | | 18.00% | 16 00% | 16.00% | 16.00% | 16.00% | 16 00% | 16.00% |
| 39/793 | 39/543 39/543 | 39/473 | 39/467 | 39/455 | 39/449 | 202 | 38/723 | 37/112 | 53/368 | | 386/387 | 57/466 | 49/438 | 49/300 | 49/248 | 49/141 | 49/1 | 48/778 |
| | | | | | | | | 1.10% | | | | | | | | | | |

RECEIVED Office of Oil and Gas

MAY 20 2020

WV Department of Environmental Protection

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia

EXHIBIT A

| David Drummond, single SWN Production Company, LLC 14. | a widower, dealing herein with his SWN Production Company, LLC | SWN Production Company, LLC | SWN Production Company, LLC | | CIVIN Broduction Company 110 | erein with her SWN Production Company, LLC | Arjanta Scott, fk/a Arjanta George, married, dealign SWN Production Company, LLC 18. | Darrel Pierson, single SWN Production Company, LLC 14. | Sherrel Novinger, flk/a Sherrel Pierson, single SWN Production Company, LLC 14. | ns, married, dealing SWN Production Company, LLC | dealing herein with her separate property | SWN Production Company, LLC | ргоренту | withher separate property Eric Price, married, dealing herein with his separate SWN Production Company, LLC 18. | Marjorie Miller Winhoven, married, dealing herein SWN Production Company, LLC 18. | ingle SWN Production Company, LLC | Casta Logacion Company, EEC | separate property Laurence B. Lane, married, dealing herein with his SWN Production Company, LLC 14 | Karen Binswanger, married, dealing herein with her SWN Production Company, LLC | Janice Miller, single SWN Production Company, LLC 14. | | ngle SWN Production Company, LLC | (company) LEO | separate property George Diehl II, married, dealing herein with his SWN Production Company, LLC 14 | ried, dealing herein with his SWN Production Company, LLC | Peter Brade, married, dealing nerein with his SWN Production Company, LLC 14. | ower of | | ick, married, dealing herein with her SWN Production Company, LLC | Daniel Branch, a married man, dealing herein withhis SWN Production Company, LLC 14. | dealing herein with his SWN Production Company, LLC | Robert L. Miller, Jr., married, dealing herein with his SWN Production Company, LLC separate property, represented herein by Attorney-in-Fact. Susanne M. Ross |
|--|--|-----------------------------|-----------------------------|--------|------------------------------|--|--|--|---|--|---|-----------------------------|----------|--|---|-----------------------------------|-----------------------------|--|--|---|--------|----------------------------------|---------------|---|---|---|---------|--------|---|--|---|--|
| 14.00% | 18.00% | 18.00% | 18.00% | 10.00% | 10 000 | 18.00% | 18.00% | 14.00% | 14.00% | 14.00% | 18.00% | 18.00% | | 18.00% | 18.00% | 14.00% | 17.00% | 14 00% | 14.00% | 14.00% | 14.00% | 14.00% | 1.00% | 14 00% | 14.00% | 14.00% | 17:00% | 14 00% | 14.00% | 14.00% | 14.00% | 18.00% |
| 50/721 | 39/461 | 47/607 | 47/48 | 4//30 | 7700 | 46/774 | 46/768 | 46/495 | 46/483 | 46/296 | 46/182 | 46/176 | | 46/786 | 42/73 | 42/67 | 12,13 | 42/43 | 42/19 | 41/794 | 41/788 | 41/782 | | 41/770 | 41/696 | 41/690 | 1 2001 | 41/684 | 41/202 | 40/641 | 40/177 | 40/7 |

| 20 3-B31-81.1 | 18 3-B31-80 19 3-B31-80.1 | 15 3-B31-77 16 3-B31-78 17 3-B31-79 | Office of Oil and Gas MAY 2 0 2020 |
|--|---|---|---|
| Clara Lee Myers, a single woman Karen Binswanger, married, dealing herein with her separate property Peter Brade, married, dealing hereing with his separate property George Diehl II, married, dealing hereing with his separate property James Diehl, single SWN Production Company, LLC (Company owned minerals) SWN Production Company, LLC (Company owned minerals) | Timothy Woolwine and Melinda Beth Woolwine, husband and wife Timothy Woolwine and Melinda Beth Woolwine, husband and wife | property Joshua Mathess, a single man Sandra J. Walnoha, widow Michael S. Walnoha | Diane Carol Givens, married, dealing herein with her separate property Jessica Marie Jensen, flk/a Jessica Givens, married, dealing herein with her separate property of citical Jonathon Montgomery, single Sherri Lynn Hugic, a divorced woman Arthur D. Stoner aka Art Dwight Stoner, a divorced man Donald Geer and Dolores Ann Geer aka Dee Geer, husband and wife Pamela Sue Amadril, a divorced woman Scott G. Duncan and Heather S. Duncan, husband and wife Andres Glassow and Karen S. Glassow, husband and wife Sean Timothy Duncan, a divorced man William H. M. Ryan SWN Production Company, LLC (Company owned minerals) Jerome Williams Rebecca K. Lemasters flk/a Rebecca K. Matask, a married woman, dealing herein with her separate |
| SWN Production Company, LLC | SWN Production Company, LLC SWN Production Company, LLC | SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC | SWN Production Company, LLC |
| 15% 14% 14% 14% 14% | 18% | 18% 12.5% 18% | 14.00% 14.00% 16.00% 16.00% 16.00% 16.00% 16.00% 16.00% 16.00% 16.00% 16.00% 18.00% |
| 40/204 41/690 42/19 41/770 41/788 385/560 384/377 | 34/376 34/376 | 36/263 23/544 30/480 23/544 30/480 | 50/733 50/754 50/742 48/706 48/770 48/778 49/141 49/141 49/248 49/300 49/438 57/466 386/387 53/368 |
| 0% | 0% | 0% | 0% |

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia EXHIBIT A

| Attached to and made a part of the State of West Virginia Clair and Gus Permit Form, WW-S41, by SNM Production Company, LLC as Operator Edition and Control of the State of West Virginia Lawrence B. Laws, married, dealing herein with his SMM Production Company, LLC 14% 4243 | 0% | 34/473 | 14% | SWN Production Company IIC | Ray Walnoha Jr., single | 3-R31-6 | 24 | \top |
|--|----|----------|-----------------------|---------------------------------------|---|----------------|----|--------|
| Attached to and made a part of the State of West Virgina of and GLS Permit Form, WW-SAL by SWM Production Company, LLC 44% 42/43 and a separate property and analysis of the State of West Virginal Lawrence B. Lane, married, dealing herein with his SWM Production Company, LLC 44% 41/696 and a separate property and calling herein with his SWM Production Company, LLC 44% 41/696 and a separate property and calling herein with his SWM Production Company, LLC 44% 41/696 and a separate property and calling herein with his SWM Production Company, LLC 44% 41/696 and a separate property and calling herein with his SWM Production Company, LLC 44% 41/696 and a separate property and calling herein with his SWM Production Company, LLC 44% 41/70 and a separate property and minerally separate property and minerally separate property and minerally separate property and minerally separate property. Bear Lawrence Beath, large SWM Production Company, LLC 44% 41/70 Swm Production Company, | | | 1070 | | | | | |
| Attached to and made a part of the State of West (riginal oil and Gus Permit Form, WW-9431, by SWN Production Company, LLC as Operator British and Cus Permit Form, WW-9431, by SWN Production Company, LLC as Operator September 1909/2017 (Carpany December 1909/2017) (Carpany Dec | | 48/667 | 18% | SWN Production Company, LLC | Kenneth J. Thompson, II | | | |
| Attached to and made a part of the State of West Virginia Oil and Gus Pennit Form, WW-641, by SWM Production Company, LLC as Operators British and Gus Pennit Form, WW-641, by SWM Production Company, LLC as Operators Designate Engineery (Company, March | | 48/673 | 18% | SWN Production Company, LLC | Jasmeen Thompson | | | |
| Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, MW-GAL, by SWM Production Company, LLC as Operator British and Cas Permit Form, Was Virginia Brooker McCominis Company, LLC separate property Brooker Country, West Virginia Brookery, LLC separate property Brooker Country, West Virginia Brookery, LLC separate property Brooker Country, West Virginia SWM Production Company, LLC separate property Brooker Country, West Virginia SWM Production Company, LLC separate property Brooker McCominis, married, dealing herein with his SWM Production Company, LLC separate property Beginnia brookery, LLC separate property Beginnia brookery, LLC separate property Beginnia brookery, LLC separate property Brooker McCompany, LLC separate property Beginnia brookery, LLC separate property Beginnia brookery separate property Beginnia brookery separate property Beginnia brookery s | | 48/679 | 18% | SWN Production Company, LLC | Janay Thompson | | | |
| Attached to and made a part of the State of West Virginia Dil and Gas Pennit Form, Wu-SAL, by SMM Production Company, LLC, as Operator Bellow Production Company, LLC and Separate property and severe | | | | - | | | | |
| Attached to and made a part of the State of West Virginal and dis Pennit Form, Wu-SAI, by SMM Production Company, LLC, as Operator Brookers (SM) and Gas Pennit Form, Wu-SAI, by SMM Production Company, LLC segarate property Ray E. Lane, married, dealing herein with his SMM Production Company, LLC segarate property Booette NoCommic, married, dealing herein with his SMM Production Company, LLC segarate property GG 20 to 50 Geography (Company, LLC segarate property) Felia Lamens Sibrib, married, dealing herein with his SMM Production Company, LLC segarate property Felia Lamens Sibrib, married, dealing herein with his SMM Production Company, LLC segarate property Geography SMM Production Company, LLC segarate property Geogr | | 45/299 | 18% | | J'Kea Thompson, individually, and as Executor of the Estates of James Thompson and Ruth D. Thompson | | | |
| Attached to and made a part of the State of West Virginia Oil and Gis Pennit Form, Ww-6A1, by SWN Production Company, LLC, as Operator Bit and Tesloyche Bit | | 45/294 | 18% | SWN Production Company, LLC | Carl E. Thompson, single | | | |
| Attached to and made a part of the State of West Virginia Oil and Gis Pennit Forum, Ww-SA1, by SWN Production Company, LLC, as Operator Bit as a part of the State of West Virginia Brooke County, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC 14% 41/886 Separate property Bit Color County Cou | | | 10,0 | | her separate property | | | |
| Attached to and made a part of the State of West Virginia Oil and Gas Pennit Form, Ww-6A1, by SWN Production Company, LLC, as Operator Binder of the State of West Virginia Brooke County, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property Benoble County, West Virginia SWN Production Company, LLC separate property Benoble married, dealing herein with his SWN Production Company, LLC separate property Benoble property Benoble married, dealing herein with his SWN Production Company, LLC separate property Separate property Benoble married, dealing herein with his SWN Production Company, LLC separate property Separate property Benoble married, dealing herein with his SWN Production Company, LLC separate property Separate property Separate property SWN Production Company, LLC separate property Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property Michael A State Thompson, a married man, dealing herein with his SWN Production Company, LLC separate property SWN Production Company, LLC separate sporety synthesis and separate property SWN Production Company, LLC separate sporety synthesis synthes | | 45/289 | 18% | h SWN Production Company IIC | Paula L. Hasty, a married woman, dealing herein wit | | | |
| Attached to and made a part of the State of West Virginia Oil and Gas Pennit Form; WW-6A1, by SWN Production Company, LLC as Operator Bit an resolved NBRY SH Brooke Country, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property Behealt brocomick, married, dealing herein with his SWN Production Company, LLC separate property Separate property Separate property Separate property Behealt Brooke Country, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property Separate property Separate property Separate property James Debits Mrg SWN Production Company, LLC separate property Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property SWN Production Company, LLC separate property Bohelt McCommick, married, dealing herein with his SWN Production Company, LLC separate property SWN Production Company, LLC separate property Bohelt McCommick, married, dealing herein with his SWN Production Company, LLC separate property Bohelt McCommick, married, dealing herein with his SWN Production Company, LLC separate property Bohelt McCommick, married, dealing herein with his SWN Production Company, LLC separate property Behand J. Lame, married, dealing herein with his SWN Production Company, LLC separate property Behand J. Lame, married, dealing herein with his SWN Production Company, LLC separate property Behand J. Lame, married, dealing herein with his SWN Production Company, LLC separate property Behand J. Lame, married, dealing herein with his SWN Production Company, LLC separate property Behand J. Lame, married, dealing herein with his SWN Production Company, LLC separate property Behand J. Lame, married, dealing herein with his SWN Production Company, LLC separate property Behand J. Lame, married, dealing herein with his SWN Production Company, LLC separate property Behand J. Lame, married, dealing herein with his SWN Production Company, LLC separate p | | 45/284 | 18% | SWN Production Company, LLC | Richard L. Thompson, single | | | |
| Attached to and made a part of the State of West Virginia Oil and Gos Permit Form, WW-641, by SWN Production Company, LLC as Operator Branch Economy, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC 14% 42/43 separate property Ray E. Lane, married, dealing herein with his SWN Production Company, LLC 14% 41/896 separate property Separate prope | | 43/228 | 18% | SWN Production Company, LLC | A & G Thompson Group, LLC | | | |
| Attached to and made a part of the State of West Virginia oil and Gas Pennit Perm, WV-6A1, by SWN Production Company, LLC, as Operator Brain Test John 1 and Gas Pennit Rich 1 by SWN Production Company, LLC 14% 42/43 segarate property. Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC 14% 41/696 segarate property property. | | 43/223 | 18% | SWN Production company, LLC | with his sperate property | | | |
| Attached to and made a part of the State of West Virginia oil and Gas Pennit Form, WV-6A1, by SWN Production Company, LLC, as Operator Brian Tesslover Risk State of West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC 14% 41696 Separate property Bookete McCornick, married, dealing herein with his SWN Production Company, LLC Separate property Benefit Storb, married, dealing herein with his SWN Production Company, LLC Separate property Peller Brade, married, dealing herein with his SWN Production Company, LLC Separate property Peller Brade, married, dealing herein with his SWN Production Company, LLC Separate property Separate property Separate property Peller Brade, married, dealing herein with his SWN Production Company, LLC Separate property Separate | | 43/218 | 18% | SWN Production Company, LLC | Charles Thomason a morried man decline baseling | | | |
| Attached to and made a part of the State of West Virginia oli and das Penni Form, MW-GAI, by SWN Production Company, LLC, as Operator Brian Testion to Brian Testion Testion to Brian Testion T | | 43/213 | 18% | SWN Production Company, LLC | Ameen Malik, single | | | |
| Attached to and made a part of the State of West Virginia oli and das Pennis Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Testophoch BRK SH Brooke County, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property Bobelle McCormick, married, dealing herein with his SWN Production Company, LLC separate property Dennis Stroh, married, dealing herein with his SWN Production Company, LLC separate property Dennis Stroh, married, dealing herein with his SWN Production Company, LLC separate property Peles Pades, married, dealing herein with his SWN Production Company, LLC separate property Peles Pades, married, dealing herein with his SWN Production Company, LLC separate property James Dienl I, married, dealing herein with his SWN Production Company, LLC separate property James Dienl, single SWN Production Company, LLC 14% 41/770 [Company owned minerals] SWN Production Company, LLC 14% 41/770 Separate property Ray E Lane, married, dealing herein with his SWN Production Company, LLC separate property Ray E Lane, married, dealing herein with his SWN Production Company, LLC separate property Ray E Lane, married, dealing herein with his SWN Production Company, LLC separate property Page Bobelle McCormick, married, dealing herein with his SWN Production Company, LLC separate property Page Bobelle McCormick, married, dealing herein with his SWN Production Company, LLC 14% 41/896 Separate property Dennis Stroh, married, dealing herein with his SWN Production Company, LLC 14% 41/896 Separate property Dennis Stroh, married, dealing herein with his SWN Production Company, LLC 14% 41/896 Separate property Dennis Stroh, married, dealing herein with his SWN Production Company, LLC 14% 41/896 Separate property Dennis Stroh, married, dealing herein with his SWN Production Company, LLC 14% 41/896 Separate property Dennis Stroh, married, dealing herein with his SWN Production Company, LLC 14% 41/896 Separate property Dennis Stroh, marr | | 43/208 | 18% | SWN Production Company, LLC | Mary Pearl Inompson, single | | | |
| Attached to and made a part of the State of West Virginal Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC as Operator Brian Testovich BRX SH Brooke County, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property Boolette McCornick, married, dealing herein with his SWN Production Company, LLC separate property Dennis Stroh, married, dealing herein with his SWN Production Company, LLC separate property Separate property Dennis Stroh, married, dealing herein with his SWN Production Company, LLC separate property Separate | | 43/203 | 18% | SWN Production Company, LLC | Montez Fledricks, sirigie | | | |
| Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, Ww-6A1, by SWN Production Company, LLC, as Operator Bridan Testovich BRX 541 Brooke County, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property Ray E. Lane, married, dealing herein with his SWN Production Company, LLC separate property Bebette NoCommick, married, dealing herein with his SWN Production Company, LLC separate property Bebette NoCommick, married, dealing herein with his SWN Production Company, LLC separate property Separate property Separate property Ray E. Lane, married, dealing herein with his SWN Production Company, LLC Company owned minerals) Company owned minerals) Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC (Company owned minerals) Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property Separate property Bobette McCommick, married, dealing herein with his SWN Production Company, LLC (Company owned minerals) Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property Bobette McCommick, married, dealing herein with his SWN Production Company, LLC Separate property Bobette McCommick, married, dealing herein with his SWN Production Company, LLC Separate property Bobette McCommick, married, dealing herein with his SWN Production Company, LLC Separate property Bobette McCommick, married, dealing herein with his SWN Production Company, LLC Separate property Bobette McCommick, married, dealing herein with his SWN Production Company, LLC Separate property Bobette McCommick, married, dealing herein with his SWN Production Company, LLC Separate property Bobette McCommick, married, dealing herein with his SWN Production Company, LLC Separate property Bobette McCommick, married, dealing herein with his SWN Production Company, LLC Separate property Bobette McCommick, married, dealing herein with his SWN Production Company, LLC Separate property Bobette McC | 0% | 43/198 | 18% | SWN Production Company, LLC | Michael A. Byrd, a widower | 3-B31-8 | 23 | |
| Attached to and made a part of the State of West Virginia Dil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Browners. Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property. Ray E. Lane, married, dealing herein with his SWN Production Company, LLC separate property. Bobette McCommick, married, dealing herein with his SWN Production Company, LLC separate property. Bobette McCommick, married, dealing herein with his SWN Production Company, LLC separate property. Baren Browner, married, dealing herein with his SWN Production Company, LLC separate property. Ray E. Lane, married, dealing herein with his SWN Production Company, LLC separate property. Ray E. Lane, married, dealing herein with his SWN Production Company, LLC separate property. Ray E. Lane, married, dealing herein with his SWN Production Company, LLC separate property. Benefit SWN Production Company, LLC separate property. LCC Separate property. LCC Company owned minerals. SWN Production Company, LLC separate property. Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property. Bobette McCommick, married, dealing herein with his SWN Production Company, LLC separate property. Bobette McCommick, married, dealing herein with his SWN Production Company, LLC separate property. Bobette McCommick, married, dealing herein with his SWN Production Company, LLC separate property. Bobette McCommick, married, dealing herein with his SWN Production Company, LLC separate property. Bobette McCommick, married, dealing herein with his SWN Production Company, LLC separate property. Bobette McCommick, married, dealing herein with his SWN Production Company, LLC separate property. Bobette McCommick, married, dealing herein with his SWN Production Company, LLC separate property. Bobette McCommick, married, dealing herein with his SWN Production Company, LLC separate property. Bobette McCommick, married, dealing herein with his SWN Production Compan | 0% | 36/302 | 14% | SWN Production Company, LLC | herein with his separate property | 3-B31-82 | 22 | Ţ |
| Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRSCH Brian Teslovich BRSCH Brian Teslovich BRSCH Brian Teslovich BRSCH Brooke County, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property Boberte McCormick, married, dealing herein with his SWN Production Company, LLC separate property Dennis Stroh, married, dealing herein with his SWN Production Company, LLC separate property Peter Brade, married, dealing herein with his SWN Production Company, LLC separate property Raren Binswanger, married, dealing herein with his SWN Production Company, LLC separate property Peter Brade, married, dealing herein with his SWN Production Company, LLC separate property SWN Production Company, LLC Separate property SWN Production Company, LLC (Company owned minerals) SWN Production Company, LLC (Separate property Bobette McCormick, married, dealing herein with his SWN Production Company, LLC separate property Bobette McCormick, married, dealing herein with his SWN Production Company, LLC Separate property Bobette McCormick, married, dealing herein with his SWN Production Company, LLC Separate property Bobette McCormick, married, dealing herein with his SWN Production Company, LLC Separate property Bobette McCormick, married, dealing herein with his SWN Production Company, LLC Separate property Bobette McCormick married, dealing herein with his SWN Production Company, LLC Separate property SWN Production Company, LLC Separate property SWN Production Company, LLC Separate property SWN Production Company, LLC Se | | | | 7 3 | separate property | | | ╁ |
| Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator BRX 51 Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC 14% 41/696 separate property Bobette McComnick, married, dealing herein with his SWN Production Company, LLC 14% 41/696 separate property Bennis Stroh, married, dealing herein with his SWN Production Company, LLC 14% 41/696 separate property Bennis Stroh, married, dealing herein with his SWN Production Company, LLC 14% 41/690 separate property Peter Brade, married, dealing herein with his SWN Production Company, LLC 14% 41/770 separate property James Diehl, single SWN Production Company, LLC 14% 41/770 separate property Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC 14% 41/770 separate property SWN Production Company, LLC 14% 41/770 separate pr | | 40/177 | 14% | SWN Production Company, LLC | Dennis Stroh, married, dealing herein with his | | | |
| Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LtC, as Operator Brian Teslovich BRX 5H Brian Teslovich BRX 5H Brooke County, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LtC separate property Ray E. Lane, married, dealing herein with his SWN Production Company, LtC separate property Bobette McCormick, married, dealing herein with his SWN Production Company, LtC separate property Dennis Stroh, married, dealing herein with his SWN Production Company, LtC separate property Rare Binswanger, married, dealing herein with his SWN Production Company, LtC separate property Rare Binswanger, married, dealing herein with his SWN Production Company, LtC separate property Separate property George Diehl II, married, dealing herein with his SWN Production Company, LtC separate property James Diehl, single SWN Production Company, LtC Separate property SWN Production Company, LtC SWN Production Comp | | 41/202 | 14% | | Bobette McCormick, married, dealing herein with he senarate neonedy | | | |
| Attached to and made a part of the State of West Virginia OI and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property Bobette McCommick, married, dealing herein with his SWN Production Company, LLC separate property Dennis Storh, married, dealing herein with his SWN Production Company, LLC separate property Dennis Storh, married, dealing herein with his SWN Production Company, LLC separate property Separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC separate property George Diehi II, married, dealing herein with his SWN Production Company, LLC | ~ | | 17/6 | | separate property | | | |
| Attached to and made a part of the State of West Virginia Diand Gas Permit Form, WW-6AI, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property Bobette McCormick, married, dealing herein with his SWN Production Company, LLC separate property Bobette McCormick, married, dealing herein with his SWN Production Company, LLC separate property Dennits Stroh, married, dealing herein with his SWN Production Company, LLC separate property Maren Binswanger, married, dealing herein with her SWN Production Company, LLC separate property Feter Brade, married, dealing herein with his SWN Production Company, LLC separate property Feter Brade, married, dealing hereing with his SWN Production Company, LLC separate property James Diehl I, married, dealing hereing with his SWN Production Company, LLC separate property James Diehl, single SWN Production Company, LLC SWN Productio | | 41/696 | 14% | — SWN Production Company 11C | Ray E. Lane, married, dealing herein with his | | | |
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| Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK SH Brooke County, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property Ray E. Lane, married, dealing herein with his SWN Production Company, LLC separate property Bobette McCormick, married, dealing herein with her SWN Production Company, LLC separate property Dennis Stroh, married, dealing herein with his SWN Production Company, LLC separate property Raren Binswanger, married, dealing herein with her SWN Production Company, LLC separate property Peter Brade, married, dealing herein with his SWN Production Company, LLC separate property Separate property Peter Brade, married, dealing hereing with his SWN Production Company, LLC separate property James Diehl, single SWN Production Company, LLC 14% 42/19 Separate property James Diehl, single SWN Production Company, LLC 14% 41/788 | | 384/377 | | | SWN Production Company, LLC | ΛA | | |
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| Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC 14% 42/43 separate property Ray E. Lane, married, dealing herein with his SWN Production Company, LLC 14% 41/696 separate property Bobette McCormick, married, dealing herein with her SWN Production Company, LLC 14% 41/202 separate peoperty Dennis Stroh, married, dealing herein with his SWN Production Company, LLC 14% 40/177 separate property Separate property Feter Brade, married, dealing herein with his SWN Production Company, LLC 14% 41/690 separate property George Diehl II, married, dealing hereing with his SWN Production Company, LLC 14% 42/19 separate property | | 41/788 | 14% | SWN Production Company, LLC | James Diehl, single | 2 | | |
| Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia Lawrence B. Lane, married, dealing herein with his separate property Ray E. Lane, married, dealing herein with his separate property Bobette McCormick, married, dealing herein with her swn Production Company, LLC separate peoperty Dennis Stroh, married, dealing herein with his separate property Separate property Raren Binswanger, married, dealing herein with her swn Production Company, LLC separate property Peter Brade, married, dealing herein with his swn Production Company, LLC separate property Peter Brade, married, dealing herein with his swn Production Company, LLC 14% 41/690 separate property Peter Brade, married, dealing herein with his swn Production Company, LLC 14% 42/19 | | 41/770 | 14% | SWN Production Company, LLC | George Diehi II, married, dealing hereing with his separate property | 020 | | |
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| Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia Lawrence B. Lane, married, dealing herein with his SWN Production Company, LLC separate property Ray E. Lane, married, dealing herein with his SWN Production Company, LLC separate property Bobette McCormick, married, dealing herein with her SWN Production Company, LLC separate peoperty Dennis Stroh, married, dealing herein with his SWN Production Company, LLC SWN Production Company, LLC 14% 41/202 | | | | | separate property | | | Γ |
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| Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-5A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H Brooke County, West Virginia | | 42/43 | 14% | SWN Production Company, LLC | Lawrence B. Lane, married, dealing herein with his | | | |
| Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator Brian Teslovich BRK 5H | | | | ty, West Virginia | Brooke Coun | | | |
| Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, as Operator | | - - | | ovich BRK 5H | Brian Tesl | | | |
| | | Operator | tion Company, LLC, as | s Permit Form, WW-6A1, by SWN Product | nd made a part of the State of West Virginia Oil and Ga | Attached to an | | |

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WV Department of Environmental Protection

| | 28 | | | | | 27 | | 26 | 25 | |
|-------------------------------|--|-----------------------------|--|----------------------------|--|--|----------------------|---|-----------------|--|
| | Ohio River | | | | | 3-B31-14 | | 3-827-11 | | |
| Division of Natural Resources | State of West Virginia Department of Commerce, SWN Production Company, LLC | | | Toups Family Trust of 2013 | individually, and as Co-Trustees of The Amy M. | John Matthew Padden and Elizabeth A. Padden, | Division of Highways | West Virginia Department of Transportation, | Brooke Co. RT.2 | |
| | SWN Production Company, LLC | SWN Production Company, LLC | American Petroleum Partners Operation, LLC | | | Fossil Creek Ohio, LLC | | SWN Production Company, LLC | | |
| | 20% | | | | | 16% | | 20% | | |
| | 55/479 | 576/22 | 32/643 | | | 29/166 | | 53/18 | | |
| | 0% | | | | | %0 | | 0% | 0% | |

EXHIBIT A

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

Brian Teslovich BRK 5H Brooke County, West Virginia



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

April 22, 2020

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

RE: SWN's proposed New Well: Brian Teslovich BRK 5H in Brooke County, West Virginia, Drilling under 4576 WV-2, Apple Pie Ridge Road, Gobblers Ridge Road, Co Hwy 67/3, Pettit Heights Rd, McCord Hill Road, Green Run Rd, and Coss Road.

Dear Ms. Adkins:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under 4576 WV-2, Apple Pie Ridge Road, Gobblers Ridge Road, Co Hwy 67/3, Pettit Heights Rd, McCord Hill Road, Green Run Rd, and Coss Road Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

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WV Department of Environmental Protection

Gary Nuckolls Staff Landman

SWN Production Company, LLC

R2 ~V+°

5/19/20

of this article have been completed by the applicant.

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

A DI No. 47 000

| Date of Notic | ce Cermication. Oli Man | | Onerator's | Well No. Brian Tes | lovich BRK 5H |
|---|---|---|--|--|---|
| | | | Well Pad I | The state of the s | |
| Notice has l | | | | | 7.732.4022-20.47.1 |
| Pursuant to th | ne provisions in West Virginia Code § 22-6 | 6A, the Operator has pro | vided the red | quired parties with | the Notice Forms listed |
| below for the State: | tract of land as follows: West Virginia | T. T. T. T. T. T. C. | Easting: | 531,197.355 | RECEIVED Office of Oil and Gas |
| County: | 009- Brooke | UTM NAD 83 | Northing: | 4,451,868.881 | OTHER OF OH AND GUS |
| District: | Buffalo | Public Road Acc | cess: | McCord Hill Road | MAY 2 0 2020 |
| Quadrangle: | Tiltonsville | Generally used t | arm name: | Brian Teslovich | A 4 E0E0 |
| Watershed: | Grog Run | = | | | WV Department of Environmental Protection |
| prescribed by it has provid information r | West Virginia Code § 22-6A-7(b), every the secretary, shall be verified and shall ced the owners of the surface described in equired by subsections (b) and (c), section surface owner notice of entry to survey | ontain the following infin subdivisions (1), (2) sixteen of this article; (| ormation: (1 and (4), subs ii) that the re | 4) A certification of section (b), section (c), section (d). | from the operator that (i) in ten of this article, the emed satisfied as a result |

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

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

Required Attachments:

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

Certification of Notice is hereby given:

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

Well Operator:

SWN Production Co., LLC

By:

Brittany Woody

Its:

Telephone:

Senior Regulatory Analyst 304-884-1610

1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

304-884-1690

Facsimile: Email:

Brittany Woody@swn.com

NOTARY RUBLIC OFFICIAL SEAL JESSICA L. VANGILDER State of West Virginia My Comm. Expires Jul 20, 2020 SWN Production Company, LLC 179 Innovation Dr. Jane Lew, WV 26378 Subscribed and sworn before me this Notary Public My Commission Expires

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 depprivacyofficerawy gov.

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WV Department of Environmental Protection

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. RECEIVED Notice of: ☐ CERTIFICATE OF APPROVAL FOR THE PERMIT FOR ANY WV Department of Environmental Protection CONSTRUCTION OF AN IMPOUNDMENT OR PIT WELL WORK Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL ✓ REGISTERED METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION 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 crosion 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) COAL OWNER OR LESSEE Name: Windsor Coal Company Name: Brian L. Teslovich Address: 1000 Consol Energy Drive Address: 211 Sunset Drive Belle Vernon, PA 15012 Canonsburg, PA 15317 Name: COAL OPERATOR Name: Address: Address: □ SURFACE OWNER(s) (Road and/or Other Disturbance) SURFACE OWNER OF WATER WELL Name: Address: AND/OR WATER PURVEYOR(s) Name: See Attachment 13A Name: Address: Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Address: Address: *Please attach additional forms if necessary

Attachment 13 A

| 7.5115-552.52.52.53.53.53.53 | | | | | | |
|------------------------------|---------------------------|-------------------------|--------------|----|-------|---|
| 03 B36014500000000 | TESLOVICH BRIAN L | 211 SUNSET DR | BELLE VERNON | PA | 15012 | 1 |
| 03 B36014200000000 | ADAMS MARK A & MELODY J | 4762 APPLEPIE RIDGE RD | WELLSBURG | wv | 26070 | 3 |
| 03B36L004200000000 | COULTER STANLEY E & JOYCE | 5108 APPLE PIE RIDGE RD | WELLSBURG | W۷ | 26070 | 1 |

Office of Oil and Gas

MAY 20 2020

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.

RECEIVED
Office of Oil and Gas

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 se如何可见 plan required by section seven of this article; and (3) the well plat.

WV Department of

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) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13)

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OPERATOR WELL NO. Brian Testovich BRK 5H

Well Pad Name: Brian Teslovich BRK

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

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in surface landowners identified in the (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their well and Gas operator shall provide an analysis to such surface landowner or water purveyor at their request. MAY **20** 2020

Water Testing Laboratories:

WV Department of Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section was consisted fluorestimated fluorestima 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

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

certified and capable of performing sample analyses in accordance with this section.

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

Written Comment:

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

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

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

WW-6A (8-13) 47009400317

OPERATOR WELL NO. Brian Teslovich BRK 5H

Well Pad Name: Brian Teslovich BRK

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

Office of Oil and Gas

- (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.

MAY 2 0 2020

WV Department of Environmental Protection

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

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

WW-6A (8-13)

OPERATOR WELL NO. Brian Teslovich BRK 5H Well Pad Name: Brian Teslovich BRK

Britismynbady Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610 Email: Brittany_Woody@swn.com Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508 Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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

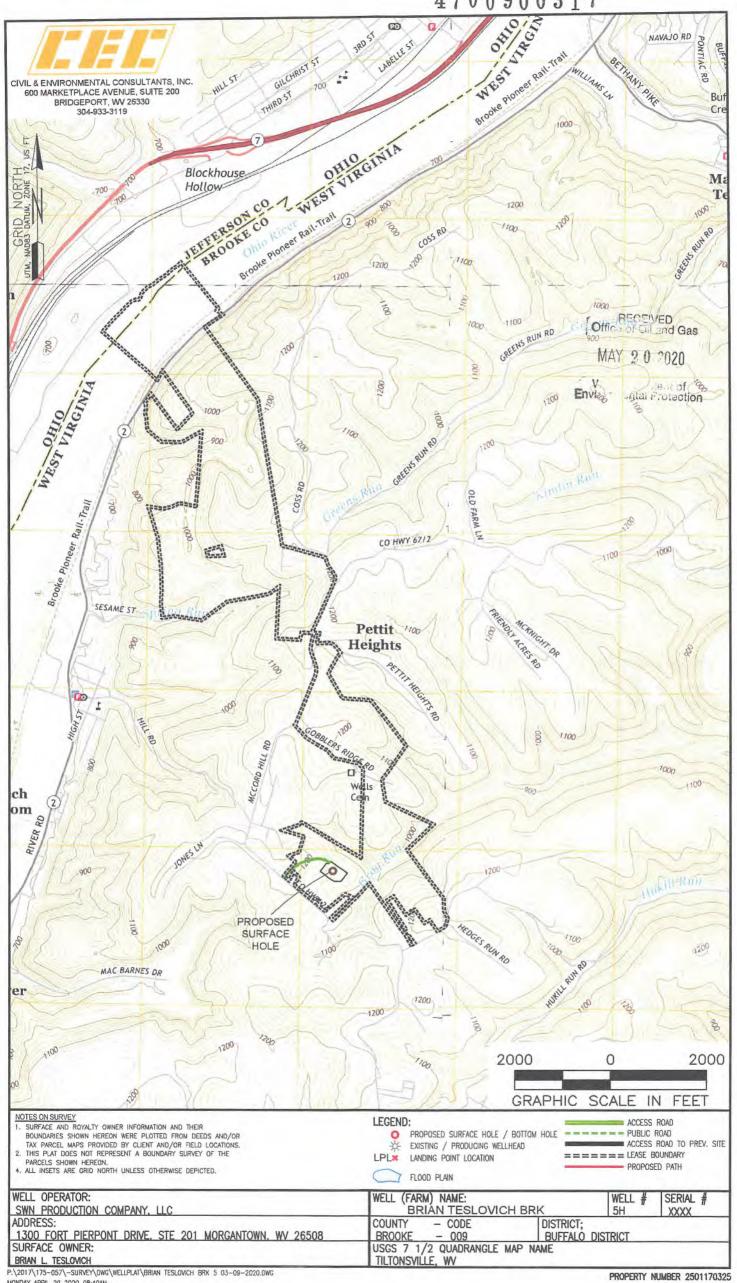
NOTARY PUBLIC OFFICIAL SEAL JESSICA L. VANGILDER State of West Virginia My Comm. Expires Jul 20, 2020 **SWN Production Company, LLC** 179 Innovation Dr. Jane Lew, WV 26378

Subscribed and sworn before me this My Commission Expires

RECEIVED Office of Oil and Gas

MAY 2 0 2020

WV Department of Environmental Protection



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

| | Requirement: | Notice shall be prov | rided at | least SEVEN (7) day | ys but no more than | FORTY-FIVE (| 45) days pri | or to |
|--|---|--|---|---|--|---|---|--|
| entry Date of Notic | e: 2/27/2020 | Date of Pla | nned Er | ntry: 3/4/2020 | | | | |
| Delivery met | od pursuant | to West Virginia C | ode § 22 | 2-6A-10a | | | | |
| ☐ PERSON | JAI 🗐 | REGISTERED | П | METHOD OF DEL | IVERY THAT RE | OUIRES A | | |
| SERVIC | | MAIL | | RECEIPT OR SIGN | | | | |
| on to the surfa but no more the beneath such to owner of mine and Sediment Secretary, who | ce tract to con an forty-five or ract that has fi rals underlyin Control Manu ch statement s | ode § 22-6A-10(a). I duct any plat survey days prior to such en iled a declaration pur g such tract in the co al and the statutes ar shall include contact obtain copies from the | s require try to: (I suant to ounty tax id rules i informa | ed pursuant to this are) The surface owner section thirty-six, are records. The notice related to oil and gas tion, including the are | ticle. Such notice s r of such tract; (2) t rticle six, chapter to e shall include a sta s exploration and p | shall be provided at to any owner or less wenty-two of this content tement that copies roduction may be o | see of coal sode; and (3 of the state obtained fro y's web site | days seams) any Erosion in the e, to |
| Notice is here | by provided | to: | | | | | Office | ECEIVED of Oil and Gas |
| SURFAC | E OWNER(s) | | | ■ COAI | LOWNER OR LE | SSEE | MAY | 2 0 2020 |
| Name: Brian L. | | ~ | | Name: 0/0 | Leatherwood, Inc. Attn: C | asey Saunders | - 210/5 | |
| Address: 411 5 | unset Drive | | | Address: | 1000 Consol Energy Drive | | -Environm | partment of ental Protection |
| Bells Vemon, PA 1 | 5012 | | | Canonsburg, F | PA 15317 | | | |
| | | | | (m) | | | | |
| Address: | | | | | ERAL OWNER(s) | | | |
| | | | _ | | n L. Teslovich | | | |
| | | | | Address: Belle Vernon, | 411 Sunsel Drive | | - | |
| Address: | | | - | | h additional forms if ne | cessary | _ | |
| a plat survey | est Virginia C on the tract of | ode § 22-6A-10(a), land as follows: | notice is | | e undersigned well ude & Longitude: | operator is plannii | ng entry to | conduct |
| State: County: | West Virginia Brooke | | | Public Road | | Apple Pie Ridge | | |
| District: | Buffalo | | | Watershed: | 100000 | Lower Buffalo Creek | | |
| Quadrangle: | Titonsville | | | Generally use | d farm name: | Brian Teslovich | | |
| may be obtain Charleston. W | ed from the Selv 25304 (30) the Secretary reby given b | and Sediment Control ecretary, at the WV I 4-926-0450). Copies by visiting www.des y: | Departm s of such | ent of Environments documents or addit | d Protection headq ional information r | uarters, located at 6 elated to horizonta | 501 57th Str | eet, SE, |
| Telephone: | 304-884-1610 | | | | Morgantown, WV 26508 | | | |
| Email: | brittany_woody | @swn.ccm | | Facsimile: | 304-884-1690 | | | |
| -committee | a.manj_modaj | G-1.77 | | | | | | |

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 away.gov.

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

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

| Notice Time Date of Noti | Requirement: Notice shall be provided ce: 03/17/2020 Date P | at least TEN (10) days prior to filing a ermit Application Filed: | permit application. |
|---|---|---|--|
| Delivery me | thod pursuant to West Virginia Code § | § 22-6A-16(b) | |
| ☐ HAND | ■ CERTIFIED MAIL | | |
| DELIVI | | EQUESTED | |
| receipt reque drilling a hor of this subsection m and if availab | sted or hand delivery, give the surface of izontal well: <i>Provided</i> , That notice give tion as of the date the notice was provid | wner notice of its intent to enter upon the pursuant to subsection (a), section to ed to the surface owner: <i>Provided, how</i> wner. The notice, if required, shall included address of the operator and the operator | an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements ovever, That the notice requirements of this ude the name, address, telephone number, or's authorized representative. |
| Name: Windsor | | Name: | |
| | Consol Energy Drive | Address: | RECEIVED Office of Oil and Gas |
| Pursuant to V the surface ov State: County: District: | Vest Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a language West Virginia Brooke Buffalo | te is hereby given that the undersigned thorizontal well on the tract of land as fo UTM NAD 83 Easting: Northing: Public Road Access: | well operator has an intent to enter upon llows: Environmental Protection 4,451,868.881 McCord Hill Road |
| Quadrangle: | Tiltonsville | Generally used farm name: | Brian Teslovich BRK |
| Watershed: This Notice | Grog Run Shall Include: | | |
| facsimile nur related to hor | nber and electronic mail address of the izontal drilling may be obtained from the | e operator and the operator's authorize the Secretary, at the WV Department of | ess, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. |
| Notice is he | reby given by: | | |
| | : SWN Production Company, LLC | Authorized Representative: | Reid Croft |
| Address: | 1300 Fort Pierpont Dr., Suite 201 | Address: | 1300 Fort Pierpont Dr., Suite 201 |
| | Morgantown, WV 26508 | | Morgantown, WV 26508 |
| Telephone: | 304-231-8329 | Telephone: | 304-231-8329 |
| Email: Facsimile: | Reid_Croft@swn.com | Email: Facsimile: | Reid_Croft@swn.com |

Oil and Gas Privacy Notice:

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

| | | | 1 1 | | |
|--|--|--|--|--|--|
| Delivery me | thod pursuant to West Virginia Co | ode § 22-6A-16(c) | | | |
| ■ CERTI | FIED MAIL | ☐ HAND | | | |
| The same of the sa | RN RECEIPT REQUESTED | DELIVERY | | | |
| return receip the planned required to be drilling of a damages to tl (d) The notice of notice. | W. Va. Code § 22-6A-16(c), no late trequested or hand delivery, give the operation. The notice required by e provided by subsection (b), section horizontal well; and (3) A proposed he surface affected by oil and gas opper required by this section shall be graphy provided to the SUPFACE Of | e surface owner whose lar this subsection shall inclu- nate of this article to a sur- d surface use and comper erations to the extent the of given to the surface owner | d will be used for ude: (1) A copy face owner whost isation agreement amages are comp | or the drilling of a horthis code sections in the section of the s | norizontal well notice of on; (2) The information in conjunction with the fer of compensation for cle six-b of this chapter. |
| | reby provided to the SURFACE O's listed in the records of the sheriff a | | | | |
| And the second second second | | Name: | | | |
| Name: Windson | Coal Company | Ivaine. | | | |
| | Consol Energy Drive | Addre | | | |
| Address: 1000 Canonsburg, PA | O Consol Energy Drive 15317 reby given: | Addre | SS: | well operator has d | eveloped a phanged/ ED |
| Address: 1000 Canonsburg, PA Notice is her Pursuant to V operation on State: County: District: Quadrangle: | O Consol Energy Drive | Addre otice is hereby given that pose of drilling a horizont UTM NAD Public Road | the undersigned valued well on the tra Easting: Northing: | | |
| Address: 1000 Canonsburg, PA Notice is her Pursuant to V operation on State: County: District: | reby given: Vest Virginia Code § 22-6A-16(c), n the surface owner's land for the pur West Virginia Brooke Buffalo | Addre otice is hereby given that pose of drilling a horizont UTM NAD Public Road | the undersigned valued on the tra Easting: Northing: Access: | 531,197,355 4,451,868.881 McCord Hill Road | MAY 2 0 2020 WW Department of |
| Address: 1000 Canonsburg, PA Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice: Pursuant to V to be provide horizontal we surface affect information in | reby given: Vest Virginia Code § 22-6A-16(c), n the surface owner's land for the pur West Virginia Brooke Buffalo Tiltonsville Grog Run Shall Include: Vest Virginia Code § 22-6A-16(c), t ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a ted by oil and gas operations to the related to horizontal drilling may be controlled to the control of the controlled to the contro | otice is hereby given that pose of drilling a horizont UTM NAD Public Road Generally us his notice shall include: (to a surface owner whose and compensation agreem extent the damages are described in the Secretary of the secre | the undersigned valued well on the tra 83 Easting: Northing: Access: sed farm name: 1) A copy of this eland will be understontaining and compensable understary, at the WV | act of land as follow 531,197.355 4,451,868.881 McCord Hill Road Brian Teslovich BRK code section; (2) Toused in conjunction offer of compensater article six-b of the Department of Error of Compensation of Error of Err | MAY 2 0 2020 WW Department of Environmental Protection the information required in with the drilling of a ation for damages to the this chapter. Additional invironmental Protection |
| Address: 1000 Canonsburg, PA Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affec information in headquarters. | Consol Energy Drive 15317 Teby given: Vest Virginia Code § 22-6A-16(c), n the surface owner's land for the pur West Virginia Brooke Buffalo Tiltonsville Grog Run Shall Include: Vest Virginia Code § 22-6A-16(c), t ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a ted by oil and gas operations to the related to horizontal drilling may be a located at 601 57th Street, SE, fault.aspx. | otice is hereby given that pose of drilling a horizont UTM NAD Public Road Generally us his notice shall include: (to a surface owner whose and compensation agreem extent the damages are described in the Secretary of the secre | the undersigned valuell on the tra 83 Easting: Northing: Access: sed farm name: 1) A copy of this e land will be usent containing an compensable understary, at the WV (304-926-0450) | act of land as follow 531,197.355 4,451,868.881 McCord Hill Road Brian Teslovich BRK code section; (2) Toused in conjunction offer of compensate article six-b of a Department of Error by visiting wy | MAY 2 0 2020 WW Department of Environmental Protection the information required in with the drilling of a ation for damages to the this chapter. Additional invironmental Protection |
| Address: 1000 Canonsburg, PA Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information in headquarters, gas/pages/def | Consol Energy Drive 15317 Teby given: Vest Virginia Code § 22-6A-16(c), n the surface owner's land for the pur West Virginia Brooke Buffalo Tiltonsville Grog Run Shall Include: Vest Virginia Code § 22-6A-16(c), t ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a ted by oil and gas operations to the related to horizontal drilling may be a located at 601 57th Street, SE, fault.aspx. | Addre otice is hereby given that rpose of drilling a horizont UTM NAD Public Road Generally us this notice shall include: (to a surface owner whose extent the damages are of a obtained from the Secret Charleston, WV 25304 | the undersigned valued well on the tra 83 Easting: Northing: Access: sed farm name: 1) A copy of this eland will be understontaining and compensable understary, at the WV | set of land as follow 531,197.355 4.451,868.881 McCord Hill Road Brian Teslovich BRK code section; (2) Toused in conjunction offer of compensater article six-b of the Department of Error by visiting wy | MAY 2 0 2020 WW Department of Environmental Protection the information required in with the drilling of a ation for damages to the this chapter. Additional invironmental Protection |

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

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

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

| Notice Time Date of Notic | Requirement: Notice shall e: 04/03/2020 | be provided at le Date Permi | ast TEN (10) days prior to filing a t Application Filed: | permit application. | |
|---|--|--|---|--|---|
| Delivery met | hod pursuant to West Virg | ginia Code § 22- | 6A-16(b) | | |
| ☐ HAND | CERTIFIEI |) MAII. | | | |
| DELIVE | | RECEIPT REQUI | ESTED | | |
| receipt request drilling a hore of this subsect subsection ma | ted or hand delivery, give to zontal well: <i>Provided</i> , That tion as of the date the notice by be waived in writing by t | ne surface owner t notice given pu was provided to he surface owner | prior to filing a permit application, notice of its intent to enter upon the resuant to subsection (a), section to the surface owner: <i>Provided</i> , how. The notice, if required, shall increase of the operator and the operator | he surface owner's en of this article sat vever, That the notion lude the name, address | land for the purpose of isfies the requirements ce requirements of this ess, telephone number, |
| | reby provided to the SU | RFACE OWN | | | |
| Name: Brian L. | | | Name: Address: | | |
| Address: 211 S Belle Vernon, PA | | | Address. | | |
| the surface ov State: County: District: Quadrangle: Watershed: | vner's land for the purpose of West Virginia Brooke Buffalo Tiltonsville Grog Run | of drilling a horiz | hereby given that the undersigned ontal well on the tract of land as for UTM NAD 83 Public Road Access: Generally used farm name: | billows: 531,197.355 4,451,868.881 McCord Hill Road Brian Teslovich BRK | MAY 2 0 2020 WW Department of Environmental Protection |
| Pursuant to V facsimile num related to hor | nber and electronic mail ac izontal drilling may be obta | ldress of the openined from the Se | tice shall include the name, additional and the operator's authorized ecretary, at the WV Department of 4-926-0450) or by visiting www.de | ed representative. A | Additional information rotection headquarters, |
| Notice is he | reby given by | | | | |
| Well Operato | | | | Reid Croft 1300 Fort Pierpont Dr., Suite 201 | |
| Address: | 1300 Fort Pierpont Dr., Suite 201 | | Address: | | |
| | Morgantown, WV 26508 | | | Morgantown, WV 265 | 08 |
| Telephone: | 304-231-8329 | | Telephone: | 304-231-8329 | |
| Email: | Reid_Croft@swn.com | | Email: | Reid_Croft@swn.com | n |
| Facsimile: | | | Facsimile: | | |
| | Reid_Crott@swn.com | | | Reid_Croft@swn.com | n |

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.

WW-6A5 (1/12)

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

| Notice Time Date of Noti | Requirement: notice shall be provide: 04/03/2020 Date Per | mit A | pplication Filed: | date of bermit | application. | |
|---|--|--|---|---|--|---|
| Delivery me | thod pursuant to West Virginia C | ode § | 22-6A-16(c) | | | |
| CERTI | FIED MAIL | | HAND | | | |
| | RN RECEIPT REQUESTED | | DELIVERY | | | |
| return receip the planned required to b drilling of a damages to t (d) The notic of notice. | W. Va. Code § 22-6A-16(c), no lat t requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A propose he surface affected by oil and gas on the surface affected by this section shall be provided to the SURFACE Open in the records of the sheriff | this son ten ord surfaceration | ace owner whose land ubsection shall inclu- if this article to a surf- ace use and compens ins to the extent the da to the surface owner a | I will be used for de: (1) A copy ace owner whos ation agreement mages are comp | or the drilling of a hor of this code section; se land will be used in at containing an offer pensable under article | (2) The information conjunction with the of compensation for exix-b of this chapter. |
| Name: Brian L. | | at the | Name: | | | |
| Address: 211 | Sunset Drive | | Address | S | | |
| Belle Vernon, PA | A 15012 | | | | | |
| | West Virginia Code § 22-6A-16(c), 1 the surface owner's land for the pu West Virginia Brooke Buffalo | | | I well on the tra Easting: Northing: | | eloped a planned RECEIVED Office of Oil and Ga |
| Quadrangle: | Tiltonsville | | Generally use | ed farm name: | Brian Teslovich BRK | WV Department of |
| Watershed: | Grog Run | | | | | Environmental Protection |
| Pursuant to V to be provid horizontal w surface affect information | Shall Include: West Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use sted by oil and gas operations to the related to horizontal drilling may b , located at 601 57 th Street, SE, fault aspx. | to a and contained external contained and co | surface owner whose impensation agreement the damages are co- tined from the Secret | e land will be un nt containing ar empensable und ary, at the WV | n offer of compensation of earticle six-b of the Department of Environment | with the drilling of a on for damages to the is chapter. Additional ronmental Protection |
| Wall O | | | 4.47 | rain w. n. Na | | |
| Well Operate Telephone: | | | Address: | 1300 Fort Pierpont I | | |
| Email: | 304-231-8329 | | Faccimilar | Morgantown, WV 26 | 5508 | |
| Eman. | Reid_Croft@swn.com | | Facsimile: | _ | | |
| 07 16 | D.V. St. J. | | | | | |

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

March 16, 2020

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

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

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

Subject: DOH Permit for the Brian Teslovich Pad, Brooke County
Brian Teslovich BRK 5H Well Site

RECEIVED Office of Oil and Gas

MAY 2 0 2020

Dear Mr. Martin,

WV Department of Environmental Protection

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

Attachment VI Frac Additives

4700900317

| Product Name AI-303 (U.S. Well Services) | Product Use Mixture | Chemical Name Ethylene glycol | 107-21 1 |
|---|--------------------------|--|---------------------------|
| AL 202 (O.D. Wen Services) | and the second | Cinnamaldehyde | 104-55 2 |
| | 6 | 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 Formaldehyde | 127-08-2 |
| Francisco (cum turner vist | Lean Control | | 50-00-0 |
| Ecopol-FEAC (SWN Well Services) | Iron Control | Acetic Acid Citric Acid | 64-19-7 77-92-9 |
| | | Water | 77-92-9 |
| EDD C1176 15 /Walliburton | Friction Reducer | Polyacylate | Proprietary |
| FDP-S1176-15 (Halliburton) | Friction Reducer | Hydrotreated light petroleum distillate | 64742-47-8 |
| FLOJET DR900 LPP (SWN Well Services) | Friction Reducer | Distillates (petroleum) hydrotreated light | 64674-47-8 |
| PLOJET DR900 LPP (SWIN Well Services) | Friction Reducer | Ethylene Glycol | 107-21-1 |
| | | Alcohols, C12-16, Exoxylated propoxylated | 68213-24-1 |
| | | Fatty Alcohols ethoxylated | Proprietary |
| | | Water | 7732-18-5 |
| FLOJET DRP 1130X (SWN Well Services) | Friction Reducer | Proprietary | Proprietary |
| FR-76 (Halliburton) | Friction Reducer | Hydrotreated light petroleum distillate | 64742-47-8 |
| rn-70 (Hamburton) | Triction Reducer | Inorganic Salt | Proprietary |
| GYPTRON T-390 (Champion Technologies) | Scale Inhibitor | Methanol | 67-56-1 |
| arr mon 1-350 (champion recimologics) | Scarc minorcor | Nonyiphenoi Ethoxylate | Proprietary |
| HAI-150E (Halliburton) | Corrosion Inhibitor | No hazardous substance | N/A |
| HCL (SWN Well Services) | Hydrocholic Acid | Hydrochloric Acid | 7647-01-0 |
| THE COUNTY WENT SELVICES | Trydrochone Acid | 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 RECEIVED | 64742-47-8 |
| | | Sodium Chloride Office of Oil and Gas | 7647-14-5 |
| | | Alcohols, C12-16, Exoxylated | 68551-12-2 |
| | | Oleic Acid Diethanolamide Ammonium Chloride MAY 2 0 2020 | 93-83-4 |
| | | Ammonium Chloride MAY 2 0 2020 | 12125-02-9 |
| Plexslick 953 | Friction Reducer | Petroleum Distillate | 64742-47-8 |
| | | WW Denarment of | 7647-14-5 |
| | | Ammonium Chloride Environmental Protection | 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, Exoxylated | 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-propenaminde | 69418-26-4 |
| | | Distillates (petroleum), hydotreated light | 64742-47-8 |
| | | Ammonium chloride ((NH4)CI) | 12125-02-9 |
| Tolcide PS50A | Dincidal product | Oleic Acid Diethnolamide | 93-83-4 |
| Totalde P350A | Biocidal product | Tetrakis (hydroxymethyl) phosphonium sulphate | 55566-30-8 |
| | | Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate | 207355 50 7 |
| LD-2950 | Friction Reducer | groups Hydrotreated light petroleum distillate | 397256-50-7 |
| | criction reducer | Ethoxylated alcohol | 64742-47-8 Proprietary |
| | | | Proprietary |
| i de la | 2.17. 2 | Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched | 69011-36-5 |
| Legend LD-7750W | Scale Control | Methanol | 67-56-1 |
| | | | |
| MC MX 8-4743 | Specialty Product | Phosphonic Acid Salt Sodium Nitrate | Proprietary 7631-99-4 |

LOCAL EMERGENCY SERVICES

FLOOD PLAIN CONDITIONS DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN: NO

PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR

ACREAGE OF CONSTRUCTION IN FLOODPLAIN: 0.00 AC

FIRM MAP NUMBER(S) FOR SITE: 540

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

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



| 1 | LOCATION MAP |
|----|---|
| 40 | TILTONSVILLE USGS 7.5 QUAD SCALE IN FEET |



| WELL RESTRICTIONS CHECKLIST (HORIZONTAL BA WELL) | |
|---|-----|
| AT LEAST 100 FEET FROM PAD AND LOD (INCLUDING ANY EAS CONTROL FEATURE), TO ANY PERENNIAL STREAM, LAVE, POND, RESERVOIR OR WETLAND: | YES |
| AT LEAST 300 FEET FROM PAD AND LOD (INCLUDING ANY EAS CONTROL FEATURE) TO ANY NATURALLY PRODUCING TROUT STREAM: | YES |
| AT LEAST 1000 FROM PAO AND LOD INCLUDING ANY ESS CONTROL FEATURIE TO ANY GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: | YES |
| AT LEAST 250 FRET FROM AN EXISTING WATER WELL OR DEVELOPED SPRING TO WELL | YES |

SHEET INDEX

COVER SHEET GENERAL NOTES MASTER LEGEND

12. SITE PLAN - WELL PAD FINISHED GRADE 13. SITE PLAN - WELL PAD SUB-GRADE 14. PROFILES AND SECTIONS MATERIAL QUANTITIES BORING LOGS BORING LOGS SITE SAFETY PLAN PROFILES AND SECTIONS PROFILES AND SECTIONS

SITE SAFETY PLAN 19, DETAILS 9. EXISTING CONDITIONS 10. ISOPACH 11. SITE PLAN 20. DETAILS 21, DETAILS 22. RECLAMATION PLAN

LOCATION COORDINATES WV83-NF (NORTH ZONE) UTM883-17 SITE LOCATIONS LONGITUDE MAIN ACCESS BOAD ENTRANCE -80 635957 4451811 2195 530891 3050 40.216148 CENTROID OF WELL PAD -80.633186 4451855.3804 531212.0188

| LO.D. AREAS | | GRADING VOLUMES | | | | | |
|--------------------------|-------|-----------------------------------|-----------|-----------|----------|--|--|
| DESCRIPTION | ACRES | DESCRIPTION | CUT (CY) | FILL (CY) | NET (CY) | | |
| MAIN ACCESS ROAD | 2.84 | MAIN ACCESS ROAD | 2,773 | 5,199 | -2,426 | | |
| WELL PAD | 6,17 | WELL PAD | 24,888 | 17,544 | 7.244 | | |
| TOPSOIL/STRIPPING PILE 1 | 1.26 | SPOIL PILE 1 | 0 | 4,818 | -4,518 | | |
| SPOIL PILE 1 | 1.15 | TOYAL | 27,661 | 27,651 | 0 | | |
| TOTAL | 11.62 | TOPSOIL / STRIPPING (10,492 C.Y.) | 8,743 C.Y | | | | |
| TOC MUODED | 10.29 | TOTAL EXCAVATION | 35,404 | 36,404 | 0 | | |
| WOODED | 11.23 | | - | | | | |

| шмпз | | The state of the s | Decision of Street, and St. 4-18. | ESLOVICH WELL PAD | | |
|--|-----------|--|--|--------------------------|--------|--|
| BROOKE COUNTY, WEST VIRGINIA OWNER TM-PARCEL DEED-PAGE TOTAL ACRES TYPE OF DISTURBANCE A | | | | | | |
| | | | The property of the party of th | | ACERAG | |
| TESLOVICH, BRIAN L. | B36 - 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/DEMOBILIZATION (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 | CY. | 8,735 | | | |
| GEOTEXTILE | 5.Y. | 23,949 | | | |
| EROSION CONTROL SLOPE MATTING | S.Y. | 5,595 | | | |
| SEEDING, LIME & FERTILIZER | AC. | 4.70 | | | |
| 12" FILTER SOCK | LF. | 2,649 | | | |
| 18" FILTER SOCK | L.F. | 181 | | | |
| 24" FILTER SOCK | L.F. | 225 | | | |
| EROSION CONTROL MATTING LINED DITCH | L.F. | 1,220 | | | |
| BIP-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, 1-1/2" MINUS (4-IN AVERAGE DEPTH) | TON | 1,700 | | | |
| #57 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 | LF. | 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 | | | |
| TOTAL | | | | | |



COVER SHEET

2

Civil

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

C000

RECEIVED Office of Oil and Gas 2 0 2020 MAY

nent of Protection

CENTL ENGINEER TIVE & ENVIRONMENTAL CONSULTANTS, INC. 500 MARKETPLACE AVENUE SUITE 200 BRIDGEPORT, VW 26330 PH: (304) 933-3119 CONTACT: JOSEPH D. ROBINSON, P.E.

SOUTHWESTERN PRODUCTION COMPANY, LLC
TYPINNOVATION DRIVE
VANE LEW, WY 26378

Fig. (281) 616-2723

CONTACT: STEVE VAN HOOK

FIRE DEPARTMENT

WYDOH

DISTRICT SIX PH: (304) B43-4000 CONTACT: DISTRICT ENGINEER
GUS SUWAID

SPILL HOTLINE

WEST VIDGINIA DEPARTMENT OF

TELEPHONE NO

(304) 234-0123

NATIONAL RESPONSE CENTER

WEST VIRGINIA STATE LAW REQUIRES THAT YOU CALL TWO BUSINESS DAYS BEFORE YOU DIG IN THE STATE OF WEST VIRGINIA, IT'S THE LAW! PROJECT PENNSYLVANIA AREA Eastern Capitol

0 1 NILES

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

AT LEAST 625 FEET FROM AN OCCUPIED DWELLING STRUCTURE TO CENTER OF PAD: AT LEAST 625 FEET FROM AGRICULTURAL BUILDINGS LARGER THAN 2500 SOLARE FEET OF THE CENTER OF THE PAD:

PLAN REPRODUCTION WARNING THE PLANS HAVE BEEN CREATED ON ANSI D (22° X 34°) 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.

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