

west virginia department of environmental protection

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

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

Friday, August 19, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359 SPRING, TX 773914954

Re: Permit approval for VERNON JOHNSON WTZ 601H 47-103-03521-00-00

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: VERNON JOHNSON WTZ 60 Farm Name: VERNON S JOHNSON ESTAT U.S. WELL NUMBER: 47-103-03521-00-00 Horizontal 6A New Drill Date Issued: 8/19/2022

Promoting a healthy environment.

PERMIT CONDITIONS

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

CONDITIONS

- 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
- 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:

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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.

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08/26/2022

4710303521 API NO. 47-009

OPERATOR WELL NO. Vernon Johnson WTZ 601H Well Pad Name: Vernon Johnson WTZ

| WW-6B | |
|---------|--|
| (04/15) | |

| DEPAF | RTMENT OF E | | | WEST VIRGINI | | DIL AND GAS |
|------------------------------------|------------------------------|---|------------|-------------------------|---------------------|---|
| | | WELL W | VORK PI | ERMIT APPLICA | ATION | |
| 1) Well Operate | or: SWN Pro | duction C | o., LLC | 494512924 | 103-Wetzel | 3-Clay 438-Littleton |
| i) iii operat | | | | Operator ID | County | District Quadrangle |
| 2) Operator's V | Vell Number: | /ernon Jol | hnson W | TZ 601H Well P | ad Name: Vern | on Johnson WTZ / |
| 3) Farm Name/ | Surface Owner | Vernon S | S. Johnson | Estate Public Ro | oad Access: Ric | e Ridge Road |
| 4) Elevation, cu | urrent ground: | 1432' | Е | levation, propose | d post-construct | ion: 1432' 🖌 |
| | (a) Gas X | | Oil | | derground Stora | |
| | Other | | | | | |
| | (b)If Gas S | hallow | x | Deep | | |
| | H | lorizontal | x | | | |
| 6) Existing Pad | I: Yes or No \underline{Y} | es | | | - | |
| | | | | vipated Thickness | | Pressure(s): I Thickness- 49', Associated Pressure- 5013 |
| 8) Proposed To | | | | | | 4 |
| 9) Formation at | | and the second se | Marcellus | s / | | |
| 10) Proposed T | | | 30549' | 1 | | |
| 11) Proposed H | | | 21687.61 | 1' / | | |
| 12) Approxima | te Fresh Water | Strata De | pths: | 440' | | |
| 13) Method to | Determine Free | sh Water I | Depths: | Salinity Profile and Ne | earby Logs on Verno | on Johnson WTZ 10H API 47-103-027 |
| | | | | ity profile analysis | s and Nearby Lo | ogs |
| 15) Approxima | ite Coal Seam I | Depths: 1 | 277' | | | |
| 16) Approxima | te Depth to Po | ssible Voi | d (coal m | ine, karst, other): | None that we | are aware of. 📈 |
| 17) Does Propo directly overlyi | | | | ms Yes | No | o x |
| (a) If Yes, pro | ovide Mine Info | o: Name | | | | C |
| | | Depth | : | | | RECEIVED Office of Gil and Gas |
| | | Seam: | - | | | JUL 1 4 2022 |
| | | Seam: | | | | JUL 1 4 2022 |

Owner:

WV Department of Environmental Protection



API NO. 47- 009 -

OPERATOR WELL NO. Vernon Johnson WTZ 601H Well Pad Name: Vernon Johnson WTZ

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

| TYPE | Size (in) | <u>New</u> <u>or</u> <u>Used</u> | <u>Grade</u> | <u>Weight per ft.</u> (lb/ft) | <u>FOOTAGE: For</u> <u>Drilling (ft)</u> | INTERVALS: Left in Well (ft) | <u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS |
|--------------|--------------|--|--------------|----------------------------------|---|------------------------------------|---|
| Conductor | 20" | New | J-55 | 94# | 126' | 126' | CTS |
| Fresh Water | 13 3/8" | New | J-55 | 54.4# | 540' | 540' | 655 sx/CTS |
| Coal | See | Interm | Casing | | | | |
| Intermediate | 9 5/8" | New | J-55 | 36# | 0' | 2600' 🦯 | 1608 sx/CTS |
| Intermediate | 9 5/8" | New | J/K-55 | 40# | 2600' | 3177' 🖊 | |
| Production | 6" | New | P-110 | 24.5# | 0' | 5000' | |
| Production | 5 1/2" | New | P-110 HP | 20# | 5000' | 30549' | Tail 5981sx/ 100' Inside Intermediate |

Temate L. Leyold 7-7-22

| TYPE | Size (in) | <u>Wellbore</u> <u>Diameter (in)</u> | <u>Wall</u> <u>Thickness</u> (in) | <u>Burst Pressure</u> (psi) | Anticipated Max. Internal Pressure (psi) | <u>Cement</u> <u>Type</u> | <u>Cement</u> <u>Yield</u> (cu. ft./k) |
|--------------|-----------|---|---|--------------------------------|--|------------------------------|--|
| Conductor | 20" | 30" | 0.25 | 2120 | 81 | Class A | 1.20/30% Excess |
| Fresh Water | 13 3/8" | 17.5" | 0.380 | 2730 | 633 | Class A | 1.20/30% Excess |
| Coal | See | Interm | Casing | | | | |
| Intermediate | 9 5/8" | 12 1/4" | 0.395 | 3950 | 1768 | Class A | 1.19/40% Excess |
| Production | 5 1/2" | 8 3/4"-8 1/2" | 0.361 | 14360 🧹 | 10500 | Class A | 1.19/5% Excess |
| Tubing | | | | | | | |
| Liners | | | | | | | |

PACKERS

| Office of Gil and Gas |
|-----------------------|
| JUL 1 4 2022 |
| |

Environment

Page 08/26/2022

WW-6B (10/14)

4710303521

API NO. 47- 009 -

OPERATOR WELL NO. Vernan Jahnson WTZ 60111 Well Pad Name: Vernan Johnson WTZ

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- 12,500 psi @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 8.4

22) Area to be disturbed for well pad only, less access road (acres): 5.9

23) Describe centralizer placement for each casing string:

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

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

See Attachment ***

25) Proposed borehole conditioning procedures:

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

Chier of Oil ----- Gus

JUL 1 4 2022

WV Department of Environmental Protection



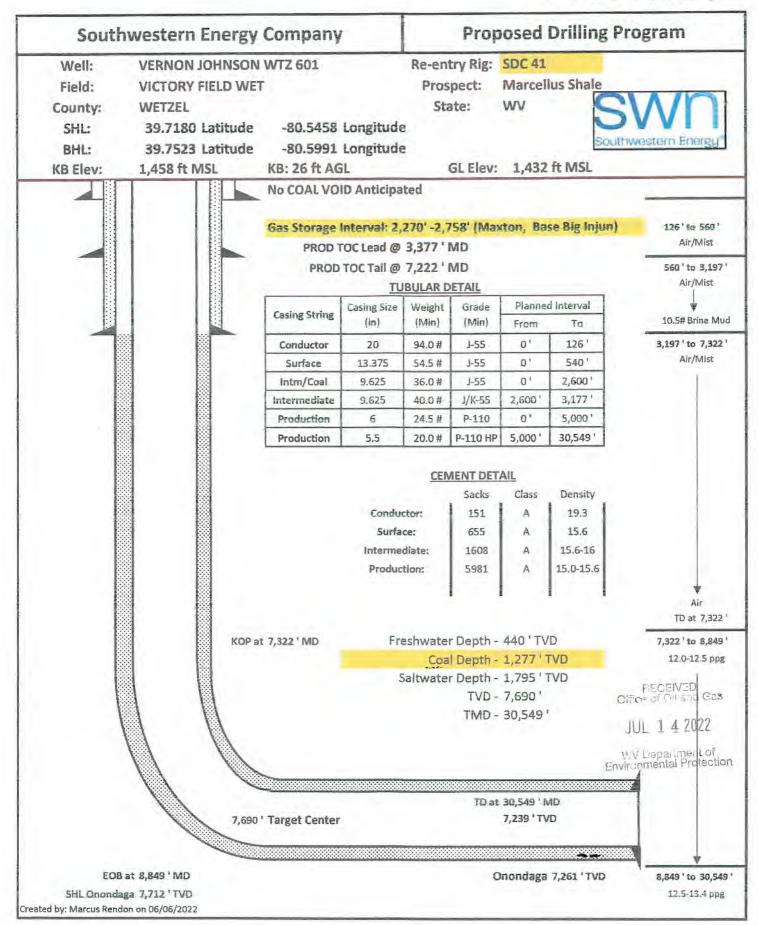
*Note: Attach additional sheets as needed.

| | | | CEMENT A | ADDITIVES | | |
|-------------------------|---------------------------------|-----------------------|----------------------------|-------------------------------------|---|-------------|
| INTERVAL | SCHLUMBERGER PRODUCT NAME | BJ PRODUCT NAME | NEXTIER PRODUCT NAME | PRODUCT USE | CHEMICAL NAME | CAS-Number |
| SURFACE (FRESHWATER) | \times | INTEGRA SEAL | CJ600 | LOST CIRC MATERIAL | CELLOPHANE FLAKES | 9005-81-6 |
| up to 3% | S001 | A-7P | CJ110 | ACCELERATOR | CALCIUM CHLORIDE | 10043-52-4 |
| COAL PROTECTION | \times | INTEGRA SEAL | CJ600 | LOST CIRC MATERIAL | CELLOPHANE FLAKES | 9005-81-6 |
| up to 3% | S001 | A-7P | CJ110 | ACCELERATOR | CALCIUM CHLORIDE | 10043-52-4 |
| | D020 | BENTONITE | CJ020 | EXTENDER | BENTONITE | 1302-78-9 |
| | D047 | FP 28L | \bowtie | LIQUID ANTIFOAM AGENT | POLYPROPYLENE GLYCOL | 25322-69-4 |
| INTERMEDIATE | > | INTEGRA SEAL | CJ600 | LOST CIRC MATERIAL | CELLOPHANE FLAKES | 9005-81-6 |
| | CemNet | \ge | \succ | 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 |
| | $>\!\!<$ | $>\!\!<$ | CJ111 | ACCELERATOR | SODIUM CHLORIDE | 7440-23-5 |
| | \ge | SS-11W | CJ880 | SURFACTANT | NONIONIC SURFACTANT | 6540-99-4 |
| | D047 | FP 28L | \mathbf{X} | LIQUID ANTIFOAM AGENT | POLYPROPYLENE GLYCOL | 25322-69-4 |
| 1.1.1.1 | \ge | \ge | CJX157011 | SOLID ANTIFOAM AGENT | FULLERS EARTH(ATTAPULGITE) | 8031-18-3 |
| | \ge | \times | CJ540 | HP FLUID LOSS ADDITIVE | ALIPHATIC AMIDE POLYMER | PROPRIETARY |
| PRODUCTION | D255 | \times | \times | MED TEMP FLUID LOSS ADDITIVE | POLYACRILIC POLYMER | PROPRIETARY |
| | > < | > | CJ213 | RETARDER | CHRYSTALLINE SILICA | 14808-60-7 |
| | \ge | FL-66 | CJ501 | LOW TEMP FLUID LOSS ADD | POWDERED POLYSACCHARIDE | PROPRIETARY |
| | > < | BENTONITE | CJ020 | EXTENDER | BENTONITE | 1302-78-9 |
| | D208 | ASA-301 | \ge | 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 |

20 NO. 3

JUL 1 4 2022

NV Department of Environmental Protection



08/26/2022

| WW-9 |
|-------------|
| (4/16) |

API Number 47 - 103

Operator's Well No, Vernon Johnson WTZ 601H

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)_West Virginia Fork Fish Creek Quadrangle Littleton | |
| Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes | No |
| Will a pit be used? Yes No 🖌 | |
| If so, please describe anticipated pit waste: | |
| Will a synthetic liner be used in the pit? Yes No 🖌 If so, what ml.? | |
| Proposed Disposal Method For Treated Pit Wastes: | |
| Land Application | 4 |
| Underground Injection (UIC Permit Number_ Various Approved Facilities |) |
| Reuse (at API Number_At the next anticplated well Off Site Disposal (Supply form WW-9 for disposal location) |) |
| Other (Explain recovery and solidification on site | |
| Ves. See Attachment 3A | |
| Will closed loop system be used? If so, describe: Yes- See Attachment 3A | The second s |
| Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Arduite Kor | י, fluid deil with SOBM from אמיי גם דע |
| -If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base | |
| Additives to be used in drilling medium? Attachment 3B | |
| Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill | |
| -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) | |
| -Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL01 | 18781, Wetzel County 1021 |
| Apex Sanitary Landill Ub-U8438, Brooke Co SWF-1013, | |
| Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permitte where it was properly disposed. | |
| I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLI on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protect provisions of the permit are enforceable by law. Violations of any term or condition of the general perm law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the inform application form and all attachments thereto and that, based on my inquiry of those individuals imm obtaining the information, I believe that the information is true, accurate, and complete. I am aware penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Brittany Woody Company Official Title Senior Regulatory Analyst | ion. I understand that the it and/or other applicable mation submitted on this nediately responsible for |
| Subscribed and sworn before me this 1st day of Jone , 20 22 | |
| Ril Cuf | REID CROFT Notary Public Official Seal State of West Virginia |
| My commission expires <u>E/21/2024</u> | My Comm. Expires Aug 21, 2024 47 Sparrow Lane Morgantown WY 26508 |



Attachment 3A

CLOSED LOOP SYSTEM

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

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

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

AIR DRILLING INTERVALS

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

LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

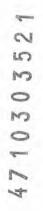
When drilling is converted to liquids drilling, the shale gas separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached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

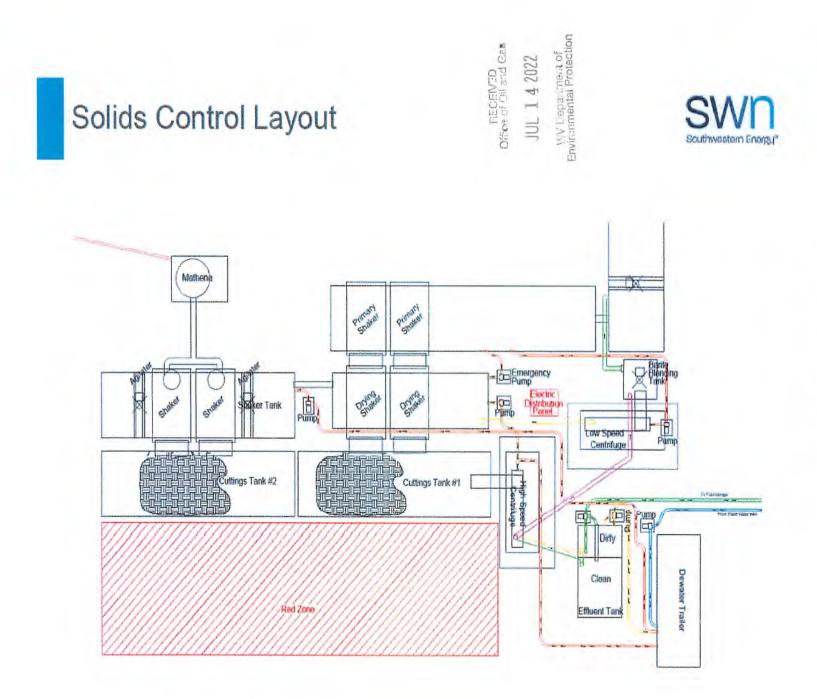
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08/26/2022





EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM

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

RECEIVED Offer of Cill and Cas

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WV Department of Environmental Protection

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Operator's Well No. Vernon Johnson WTZ 601H

SWN Production Co., LLC

| Proposed Revegetation Treatment: Acres Disturb | ed <u>8.4</u> | Prevegetation pH | I |
|---|-------------------------------------|---|--------------------------|
| Lime as determined by pH test min.2 Tons/acre or to | correct to pH _5.9 | | |
| Fertilizer type <u>10-20-20</u> | | | |
| Fertilizer amount 600/500 | lbs/acre | | |
| MulchHay/Straw | Tons/acre | | |
| | Seed Mixtures | | |
| Temporary | | Perma | nent |
| Seed Type Ibs/acre Attachment 3C | | Seed Type | lbs/acre |
| | | | |
| | <u></u> <u></u> | | |
| | | | |
| | or land application (unles | s engineered plans includ | ling this info have been |
| provided). If water from the pit will be land applie acreage, of the land application area. Photocopied section of involved 7.5' topographic | ed, include dimensions (L | s engineered plans includ , x W x D) of the pit, and | |
| provided). If water from the pit will be land applie acreage, of the land application area. Photocopied section of involved 7.5' topographic | ed, include dimensions (L sheet. | , x \overline{W} x D) of the pit, and | |
| provided). If water from the pit will be land applic acreage, of the land application area. | ed, include dimensions (L sheet. | , x \overline{W} x D) of the pit, and | dimensions (L x W), and |
| provided). If water from the pit will be land applie acreage, of the land application area. Photocopied section of involved 7.5' topographic Plan Approved by: | ed, include dimensions (L sheet. | , x \overline{W} x D) of the pit, and | dimensions (L x W), and |
| provided). If water from the pit will be land applie acreage, of the land application area. Photocopied section of involved 7.5' topographic Plan Approved by: | ed, include dimensions (L sheet. | , x \overline{W} x D) of the pit, and | dimensions (L x W), and |
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 Title:
 Oil & Gas Inspector
 JUL 1 4 2022

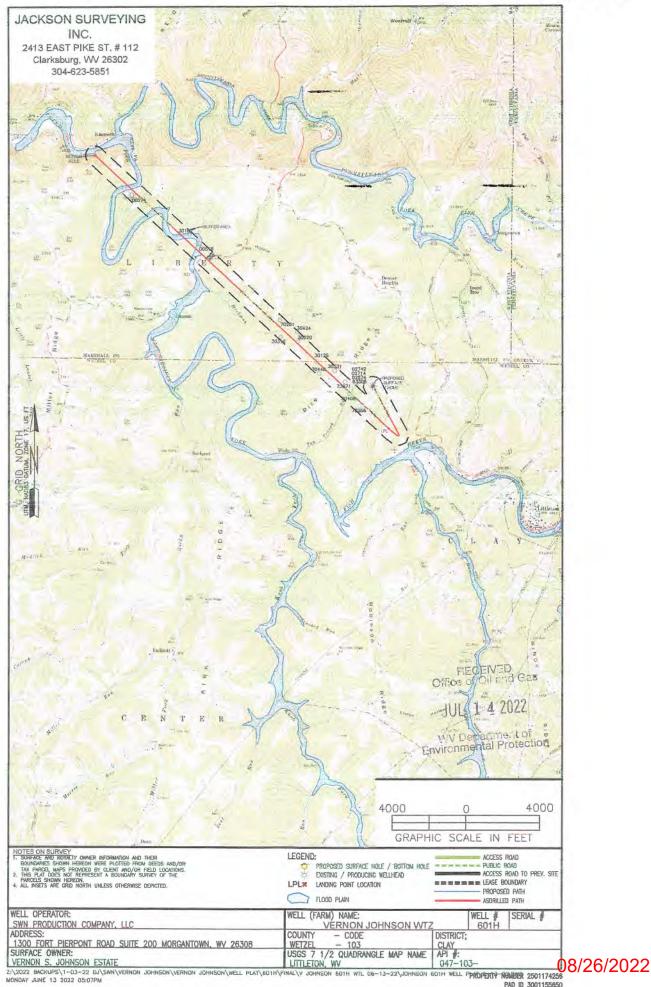
 Title:
 Date:
 7-7-22

 WV Departmental Protection

 Field Reviewed?
 Ves

08/26/2022

| Southwestern Energy* | W | /D Seeding | Specification | R2-noV |
|---|---|---|---|--|
| | ed contact Lyndsi Eddy Flippo office S | 70-996-4271 cell 501-26 | | or delivery) |
| NON-ORGANIC PROPERTIES | | | ORGANIC PROPERTIES | |
| Seed Mixture: ROW Mix | SWN Supplied | | Seed Mixture: SWN Production Organic Mix | SWN Supplied |
| Drchardgrass | 40% | | Organic Timothy | 50% |
| Timothy | 15% | | Organic Red or White Clover | 50% |
| Annual Ryegrass | 15% | | OR | |
| Brown Top Millet | 5% | | Organic Perennial Ryegrass | 50% |
| Red Top | 5% | | Organic Red or White Clover | 50% |
| Medium Red Clover | | l legumes are | Apply @ 100lbs per ser | |
| White Clover | 5% innocu | lated at 5x normal | Apply @ 100lbs per acre April 16th- Oct. 14th | Apply @ 200lbs per acre Oct. 15th- April 15th |
| Birdsfoot Trefoil | 5% | rate | April 2011 Oct. 2411 | Oct. 15th- April 15th |
| Rough Bluegrass | 5% | | Organic Fertilizer @ 200lbs per Acre | Pelletized Lime @ 2 Tons per Acre |
| Apply @ 100lbs per acre April 16th- Oct. 14th | Apply @ 200lbs Oct. 15th- April 2 50lbs per acre of W | 15th PLUS | | |
| | Solds per acre of w | inter wheat | WETLANDS (delineated as jurisdiction | |
| SOILAMENDMENTS | | | Seed Mixture: Wetland Mix | SWN Supplied |
| 10-20-20 Fertilizer | *Apply @ 500lb | Contraction of the second s | | 20% |
| Pelletized Lime | Apply @ 2 Ton | | | 20% |
| | *unless otherwise dictate | d by soil test results | | 20% |
| Seeding Calculation Information: | | | | 10% 355 - 555 |
| 1452' of 30' ROW/LOD is One Acre | | | | 20% 20% 20% 20% 10% 10% 5% 5% |
| 871' of 50' ROW/LOD is One Acre | | | | 5% |
| 622' of 70' ROW/LOD is One Acre | | | | 5% 0 |
| | | | | 5% |
| Synopsis: | | Carlor and States | Fox Sedge | 2.5% |
| Every 622 linear feet in a 70' ROW/LOD, | | | Soft Rush | 2.5% |
| bags of fertilizer and (80) 50lb bags of Li | me (2x seed in winter months + | 50lb Winter | | 2.5% |
| Wheat/ac). | | | Swamp Verbena | 2.5% |
| Special Considerations: | | | Apply @ 25lbs per acre | Apply @ 50lbs per acre |
| Landowner Special Considerations including guidance that is not given here. Discuss the beginning of the project to allow time for sp | se requirements with SWN supervi | the second se | April 16th- Oct. 14th NO FERTILIZER OR LIME INSI | Oct. 15th- April 15th DE WETLAND LIMITS |



PAD ID 3001155650

Vernon Johnson WTZ 601H

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| •••• | API F | Operator | Status | Latitude | Longitude | Vertical TD | Producing Formation | Producing Zones Not Perforated |
|------|-------|----------|---------|----------|-----------|--------------------|---------------------|---------------------------------------|
| 732 | 256 | Unknown | Unknown | *** | *** | Unknown | Unknown | |
| 304 | 108 | Unknown | Unknown | *** | *** | 3,310 | Gordon | · · · |
| 732 | 271 | Unknown | Unknown | *** | *** | Unknown | Unknown | · · · · · · · · · · · · · · · · · · · |
| 305 | 531 | Unknown | Unknown | *** | *** | Unknown | Unknown | · · |
| 304 | 146 | Unknown | Unknown | *** | *** | 3,148 | Gordon | · · · · · · · · · · · · · · · · · · · |
| 301 | 125 | Unknown | Unknown | *** | *** | 3,126 | Gordon | |
| 303 | 320 | Unknown | Unknown | *** | *** | Unknown | Unknown | |
| 303 | 319 | Unknown | Unknown | *** | *** | 3,229 ₁ | Gordon | |
| 304 | 424 | Unknown | Unknown | *** | *** | Unknown | Unknown | · · |
| 702 | 261 | Unknown | Unknown | *** | *** | Unknown | Unknown | |
| 051 | 19-P | Unknown | Unknown | *** | *** | 2,046 | Unknown | |
| 301 | 182 | Unknown | Unknown | *** | *** | Unknown | Unknown | |
| 027 | 74-P | Unknown | Unknown | *** | *** | 2,053 | Unknown | |

iviv Department of ion FECENED Gas JUL 1 4 2022

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

API NO. 47-XXX-XXXXX WELL NAME: Vernon Johnson WTZ 601H Littleton QUAD **Clay DISTRICT** WETZEL COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody Inttany Moody

Date: 5/31/2022

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: Terret 1. Storold Date: 7-7-22

Title:

Title:

Approved by:

Name:_____

Date:

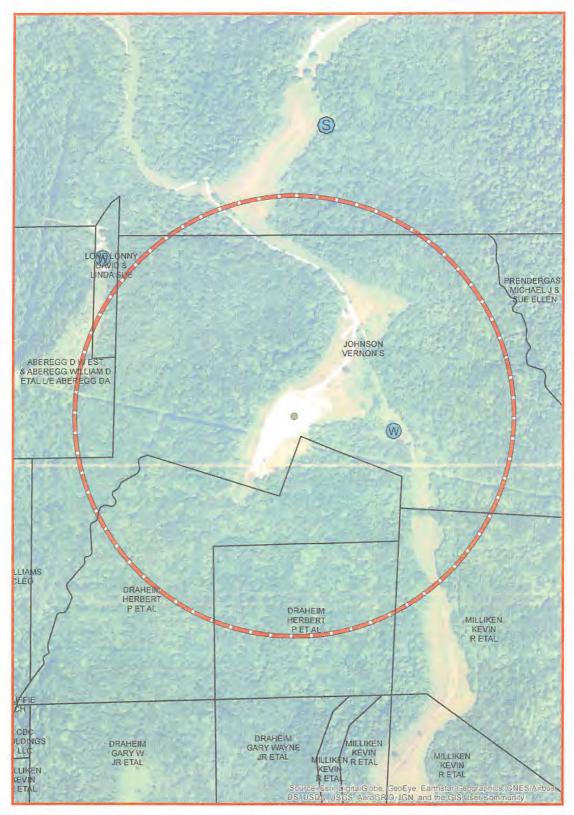
JUL 1 4 2022

RECEIVED Office of Oil and Cas

WV Department of Environmental Protection

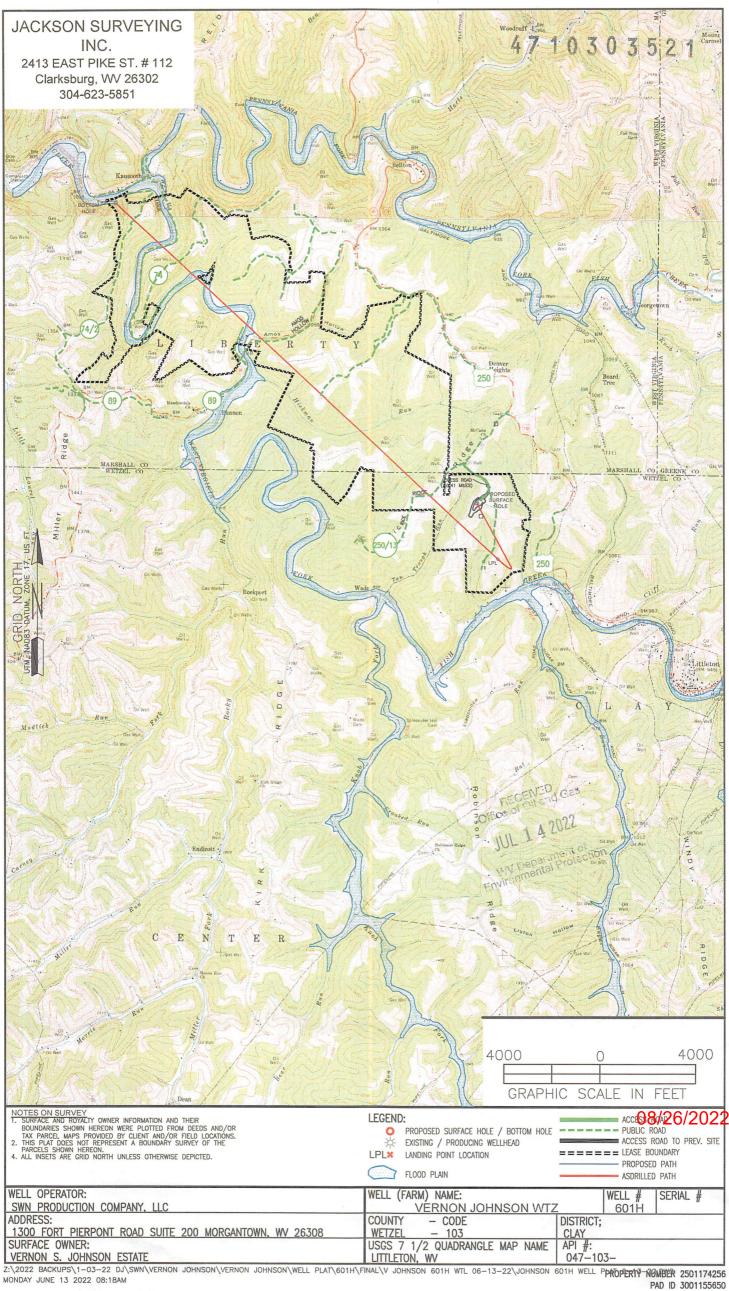
SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL

08/26/2022

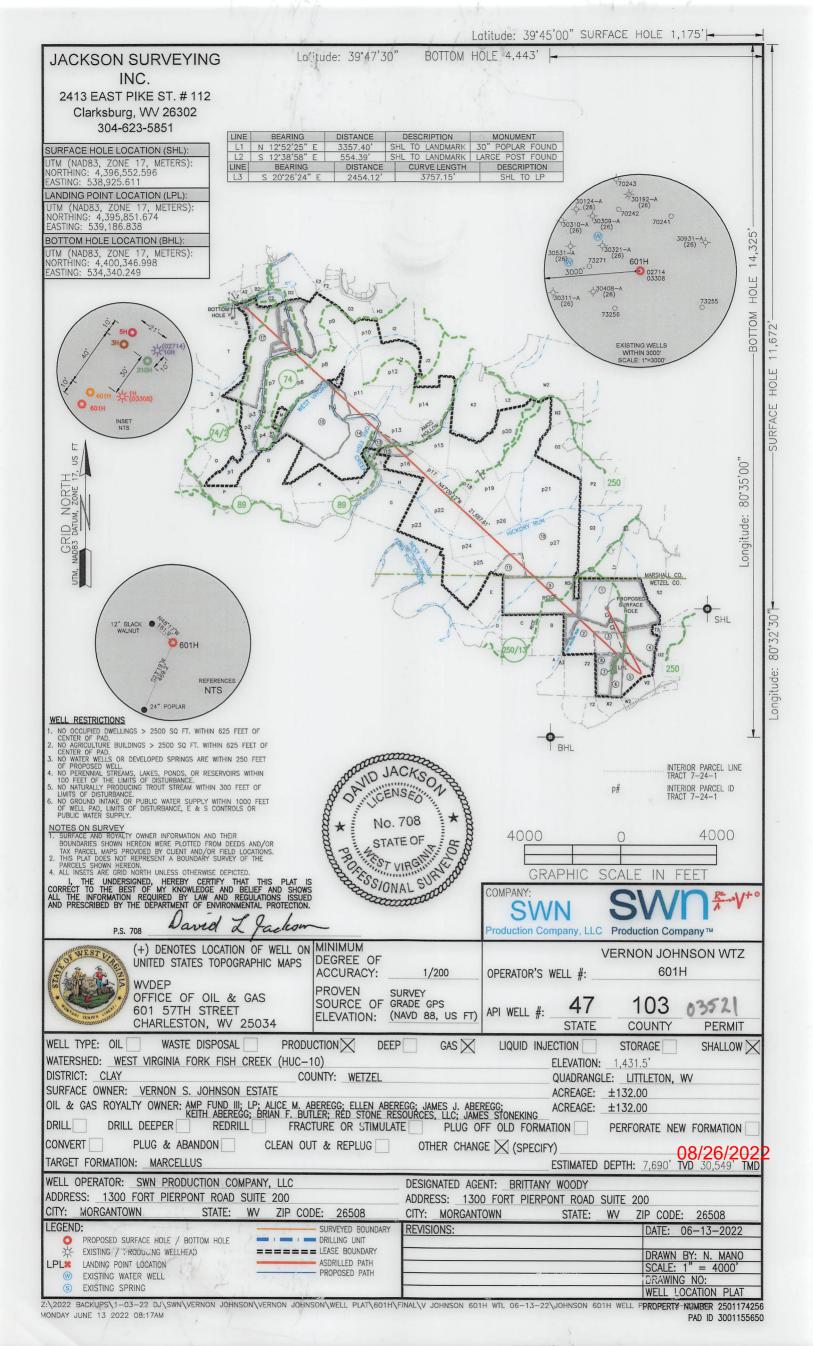


The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate.

| Water Purveyo | r Map | Con Harris | Well Pad: Vernon Johns | son WTZ Pad | County: WETZEL | |
|--|------------------|------------|-------------------------------|------------------------|-------------------|------------|
| Map by: speart NAD 1983 BLM Zone 17N ftUS | Date: 10/12/2017 | O | Vernon Johns 39.718029, -8 | on WTZ Coo 0.545754 | rdinates; | § 1 |
| 0 | 250 500 | 1,000 | 1,500 | 2,000 Feet | | 08/26/2022 |



PAD ID 3001155650



JACKSON SURVEYING INC. 2413 EAST PIKE ST. # 112 Clarksburg, WV 26302 304-623-5851

| | WELL BORE TRACTS | |
|-------|--|------------|
| TRACT | SURFACE OWNER (S) / ROYALTY OWNER (R) | TAX PARCE |
| | JOHNSON VERNON SEST (S)/ AMP FUND III; LP; ALICE M. ABEREGG; | |
| | ELLEN ABEREGG; JAMES J. ABEREGG; KEITH ABEREGG, BRIAN F. BUTLER; | |
| 1 | RED STONE RESOURCES, LLC; JAMES STONEKING (R) | 3-1-1 |
| TRACT | SURFACE OWNER (S) | TAX PARCEL |
| 2 | DRAHEIM HERBERT P ET AL (S) | 3-1-6 |
| 3 | DRAHEIM HERBERT P ETAL (S) | 3-1-5 |
| 4 | MILLIKEN KEVIN R ETAL (S) | 3-1-4 |
| 5 | MILLIKEN KEVIN R ETAL (S) | 3-1-13 |
| 6 | MILLIKEN KEVIN R ETAL (S) | 3-1-12 |
| 7 | MILLIKEN KEVIN R ETAL (S) | 3-1-11 |
| 8 | DRAHEIM GARY WAYNE JR ETAL (S) | 3-1-10 |
| 9 | ABEREGG D W EST & ABEREGG WILLIAM D ETAL L/E ABEREGG DA (S) | 1-3-2 |
| 10 | W VA WILDLIFE RESOURCES SECTION (S) | 7-24-1 |
| | JOHN R. ISIMINGER; LAWRENCE W. MCCLELLAND; MICHAEL CLAY | |
| 11 | WADE(S) | 7-24-6 |
| 12 | PETER VELLEKOOP & LINDA VELLEKOOP (S) | 7-26-6.1 |
| 13 | GEDEON DANIEL D ET UX (S) | 7-26-6 |
| 14 | YOCUM JOSEPH LEE & MICHAEL D (S) | 7-26-9 |
| 15 | CONSOLIDATED GAS SUPPLY CORP (S) | 7-26-8 |
| 16 | FROMHART BRAD ET UX - LIFE (S) | 7-20-41 |
| 17 | GRIBBEN M PEGGY REVOCABLE LIVING TRUST (S) | 7-19-28 |

| ADJOINING OWNERS TABLE | | | | | | | |
|------------------------|--|------------|--|--|--|--|--|
| RACT | SURFACE OWNER | TAX PARCEL | | | | | |
| A | MCGUFFIE ARCH | 1-6-5 | | | | | |
| В | WILLIAMS JOHN EDWARD | 1-3-9 | | | | | |
| С | WILLIAMS LONNIE L | 1-3-7 | | | | | |
| D | SEIDLER EARL DALE & NETTIE | 1-2-6.1 | | | | | |
| E | WILLIAMS KATHERINE E TRUST | 1-3-1 | | | | | |
| F | VELLEKOOP PETER B ET UX - TOD | 7-27-13 | | | | | |
| G | VELLEKOOP PETER B ET UX - TOD | 7-27-11 | | | | | |
| Н | VELLEKOOP PETER B ET UX - TOD | 7-27-10.1 | | | | | |
| 1 | VELLEKOOP PETER B ET UX - TOD | 7-27-6.2 | | | | | |
| J | STIPETICH SUSAN F & FRANK R | 7-27-4.2 | | | | | |
| K | YOCUM JOSEPH LEE & MICHAEL D | 7-27-4 | | | | | |
| L | BUZZARD COLIN R | 7-26-3 | | | | | |
| M | HUNDRED RESOURCES IN C | 7-26-11 | | | | | |
| N | BUTLER JOHN M & LISA A | 7-26-11.1 | | | | | |
| 0 | HORNER DELORSE A | 7-26-10 | | | | | |
| P | WADE EDWARD E JR | 7-27-2 | | | | | |
| Q | MORGAN JAMES E - LIFE | 7-26-14 | | | | | |
| R | ROMACK VICTOR A | 7-19-38 | | | | | |
| S | | 7-19-30 | | | | | |
| | HORNER DELORSE A - LIFE | | | | | | |
| T U | GRIBBEN M PEGGY REVOCABLE LIVING TRUST | 7-19-29 | | | | | |
| | ZELIC NICK ET UX | 7-19-27 | | | | | |
| V | HORNER DELORSE A - LIFE | 7-19-26 | | | | | |
| W | CHURCH OF CHRIST TRUSTEES | 7-19-25 | | | | | |
| X | COLLINS BRIAN & PAMELA J | 7-19-24 | | | | | |
| Y | COLUNS BRIAN & PAMELA J | 7-19-23.1 | | | | | |
| Z | COLLINS BRIAN & PAMELA J | 7-19-23.2 | | | | | |
| A2 | DRUSCHEL JAMES F & JAMIE ANN ET AL | 7-19-23 | | | | | |
| B2 | CUMPSTON GAIL | 7-19-20 | | | | | |
| C2 | UNDERDONK ALAN | 7-16-25.1 | | | | | |
| D2 | FROMHART BRAD ET UX - LIFE | 7-20-1 | | | | | |
| E2 | BURGE JUDITH A & VIRGINIA L BAILEY ET AL | 7-20-6 | | | | | |
| F2 | GEHO ANNIE LEST | 7-20-11 | | | | | |
| G2 | BURLEY AMMON ET UX | 7-20-12 | | | | | |
| H2 | BURLEY AMMON | 7-20-18 | | | | | |
| 12 | BURLEY AMMON A | 7-20-24 | | | | | |
| J2 | BURLEY AMMON A | 7-20-37 | | | | | |
| K2 | GRESHAW JASON M & MARY L | 7-25-2 | | | | | |
| 12 | BROWN ANDREW C III | 7-25-6 | | | | | |
| M2 | HARRINGTON CLYDE F | 7-25-7 | | | | | |
| N2 | W VA DEPT OF COMMERCE DIV OF NATURAL RESOURCES | 7-25-9 | | | | | |
| 02 | CONAWAY THOMAS EARL JR & CAROLYN K STOWE | 7-25-12 | | | | | |
| P2 | CONAWAY THOMAS E | 7-23-1 | | | | | |
| Q2 | PRENDERGAST MICHAELJ & SUELLEN LEMLEY | 7-23-26 | | | | | |
| R2 | LONG LONNY DAVID & LINDA SUE | 1-3-2.1 | | | | | |
| S2 | PRENDERGAST MICHAELJ & SUE ELLEN | 3-1-2 | | | | | |
| T2 | WV MINERALS INC | 3-1-3 | | | | | |
| U2 | MCDIFFITT WILBERT(WEBB)H TRUST | 3-1-35 | | | | | |
| V2 | GORBY GREGORY A & CYNTHIA D | 3-1-14 | | | | | |
| W2 | WAYNE CARMINT REALTY | 3-1-18 | | | | | |
| X2 | WAYNE CARMINT REALTY LLC | 3-1-19 | | | | | |
| Y2 | WAYNE CARMINT REALTY LLC | 3-1-20 | | | | | |
| Z2 | DRAHEIM GARY W JR ETAL | 3-1-20 | | | | | |
| A3 | CBC HOLDINGS LLC | 3-1-8.1 | | | | | |

| | | | | 08/26/2022 |
|------------|--------------------|--------------------------------|-----------------------|---|
| REVISIONS: | COMPANY: | SWN Production Company, LLC | SW Production Corr | npany™ |
| | OPERATOR'S WELL #: | VERNON JOHNSON WTZ 601H | API #: 047-103- | DATE: 06-13-2022 DRAWN BY: N. MANO |
| | DISTRICT: CLAY | COUNTY: WETZEL | STATE: WV | SCALE: N/A DRAWING NO: WELL LOCATION PLAT 2 |

Z:\2022 BACKUPS\1-03-22 DJ\SWN\VERNON JOHNSON\VERNON JOHNSON\WELL PLAT\601H\FINAL\V JOHNSON 601H WTL 06-13-22\JOHNSON 601H WELL PLAT 6-13-22.DWG MONDAY JUNE 13 2022 08:18AM

4 7 1 0 3 0 3 5 2 1 Operator's Well No. Vernon Johnson WTZ 601H

WW-6A1 (5/13)

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 –

- 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:

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

See Exhibit "A"

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

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

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

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

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

| Well Operator: | SWN Production Company, LLC |
|----------------|-----------------------------|
| By: | ROZI |
| Its: | Senior Landman |

OFFICENCE CES

JUL 1 4 2022

WV Department of Environmental Protection

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

| # | тмр | LESSOR | LESSEE | ROYALTY | BK/PG | Interest Not Leased by SWN Production Company, LLC |
|-----|--------------|---|--|---------------|---------------------|---|
| 1 | 3-1-1 | Alice Driver, f/k/a Alice LeBoda, a single woman | Chesapeake Appalachia, L.L.C. | 12.50% | 94A/461 | 0.0000% |
| | | | | | 157A/540 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 12.50% | 94A/464 | 4 |
| | | Ellen Vannatter, a single woman Chesapeake Appalachia, L.L.C. | Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 12.50% | 157A/540 | |
| | | Carol Staley, f/k/a Carol Butler, a married woman | Chesapeake Appalachia, L.L.C. | 12.50% | 94A/467 | - |
| | | dealing in her sole and separate property | - and the state of | | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | James Joseph Aberegg, a/k/a Joseph Aberegg, a | Chesapeake Appalachia, L.L.C. | 12.50% | 94A/476 | |
| | | single man Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | James Denzil Stoneking, a married man dealing in | Chesapeake Appalachia, L.L.C. | 12.50% | 94A/470 | |
| | | his sole and separate property | | | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 12.50% | 157A/540 94A/473 | 4 1 |
| | | Keith Aberegg, a married man dealing in his sole and separate property | Chesapeake Appalachía, L.L.C. | 12.50% | 94A/473 | |
| - | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| 2 | 3-1-6 | Allan Karl Draheim, a married man dealing in his | Chesapeake Appalachia, L.L.C. | 12.50% | 91A/107 | 0.0000% |
| | | sole and separate property Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| 1.1 | | Timothy Neil Draheim, a single man | Chesapeake Appalachia, L.L.C. | 12.50% | 91A/110 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | Steven Mark Draheim, a married man dealing in his | Chesapeake Appalachia, L.L.C. | 12.50% | 90A/686 | 1 1 |
| | | sole and separate property | | | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 10.502 | 157A/540 | |
| | | Gary Wayne Draheim, Sr., a married man dealing in his sole and separate property | Chesapeake Appalachia, L.L.C. | 12.50% | 90A/680 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | Edward Michael Draheim, a married man dealing in | Chesapeake Appalachia, L.L.C. | 12,50% | 90A/689 | 1 |
| | | his sole and separate property Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | William Lester Draheim, a married man dealing in | Chesapeake Appalachia, L.L.C. | 12,50% | 90A/683 | 1 1 |
| | | his sole and separate property | | | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | 4 1 |
| | | Louis David Williams, Jr., a married man dealing in his sole and separate property | Chesapeaké Appalachia, L.L.C. | 12.50% | 90A/496 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | Louis David Williams, III, a married man dealing in | Chesapeake Appalachia, L.L.C. | 12.50% | 91A/113 | 1 |
| | | his sole and separate property Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| 1 | | Vernon Sterling Johnson, a single man | Chesapeake Appalachia, L.L.C. | 12.50% | 90A/579 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | Gerald Edward Dean, a single man | Chesapeake Appalachia, L.L.C. | 12.50% | 91A/104 | 1 |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| 3 | 3-1-5 | Allan Kari Draheim, a married man dealing in his | Chesapeake Appalachia, L.L.C. | 12.50% | 91A/107 | 0.0000% |
| 1 | | sole and separate property Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | Timothy Nell Draheim, a single man | Chesapeake Appalachia, L.L.C. | 12.50% | 91A/110 | 1 |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | Steven Mark Draheim, a married man dealing in his | Chesapeake Appalachia, L.L.C. | 12,50% | 90A/686 | 1 |
| | | sole and separate property Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | Gary Wayne Draheim, Sr., a married man dealing in | Chesapeake Appalachia, L.L.C. | 12,50% | 90A/680 | APARTICS |
| | | his sole and separate property | | | | Office of The CENT |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | 4 |
| | | Edward Michael Draheim, a married man dealing in his sole and separate property | Chesapeake Appalachia, L.L.C. | 12.50% | 90A/689 | JUL 1 4 2022 |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | JUL I S LOLL |
| | | William Lester Draheim, a married man dealing in | Chesapeake Appalachia, L.L.C. | 12.50% | 90A/683 | WW Denaliment |
| | | his sole and separate property Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | WV Departments Environmental Prote |
| | | Louis David Williams, Jr., a married man dealing in | Chesapeake Appalachia, L.L.C. | 12.50% | 90A/496 | |
| | | his sole and separate property | | | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | Louis David Williams, III, a married man dealing in his sole and separate property | Chesapeake Appalachia, L.L.C. | 12,50% | 91A/113 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | Vernon Sterling Johnson, a single man | Chesapeake Appalachia, L.L.C. | 12.50% | 90A/579 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | Gerald Edward Dean, a single man | Chesapeake Appalachia, L.L.C. | 12,50% | 91A/104 | |
| | 2 a b | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | 10 933385 |
| 4 | 3-1-4 | Royalty Owners Beth Ann Barnhart, a married woman dealing in her | N/A Chesapeake Appalachia, L.L.C. | N/A 12,50% | N/A | 10.8333% |
| | | sole and separate property | Simappeore appalacitia, L.L.C. | 12,5076 | 109A/31 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | | | | | |
| | | Bryan L. Gorby and Melanie C. Gorby, his wife | Chesapeake Appalachia, L.L.C. | 12.50% | 100A/271 | 08/26/2022 |

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

| | | | tzel County, West Virginia | 471 | 03 | 03521 | |
|---|--------|--|--|---------|--|---|--------|
| # | ТМР | LESSOR | LESSEE | ROYALTY | BK/PG | Interest Not Leased by SWN Production Company, LLC | |
| | | George B. Vieweg IV | SWN Production Company, L.L.C. | 17.50% | 186A/495 | | |
| | | Gregory A. Gorby, a/k/a Gregory Gorby and Cynthia | | 12.50% | 104A/383 | | |
| | | Gorby, his wife | | | 1574/540 | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 17.50% | 157A/540 186A/503 | | |
| | | Gwendolyn J. Vieweg James A. Campell and Tinamarie Campbell, his wife | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 17.00% | 128A/646 | | |
| | | Tames A. Campen and Titlamane Campbell, his wife | | 1,00,0 | 120/0/0/10 | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | | |
| | | Jennifer Dvorak, married dealing in her sole and | SWN Production Company, LLC | 15.00% | 204A/929 | | |
| | | separate property Richard Paul Murphy, by his attorney-in-fact Jo Ann W. Murphy and Jo Ann W. Murphy, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 128A/654 | | |
| | | | | | 4574/540 | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 12.50% | 157A/540 100A/484 | | |
| | | John Allan Moore a/k/a John A. Moore and Marcia W. Moore, his wife | Chesapeake Appalachia, L.L.C. | 12.50% | 100/0404 | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | | |
| | | John K. Campbell, Jr., a single man | Chesapeake Appalachia, L.L.C. | 17.00% | 130A/38 | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | | |
| | | Kevin R. Milliken, a married man dealing in his sole | Chesapeake Appalachia, L.L.C. | 12.50% | 109A/120 | | |
| | | and separate property Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | | |
| | | Lance Everett Rhodes | SWN Production Company, LLC | 17.50% | 186A/509 | | |
| | | Lawrence T. Goodin, Douglas E. Goodin and Carol E. | SWN Production Company, LLC | 15.00% | 212A/835 | | |
| | | Goodin, Trustees of the Helen G. Dewell Trust dated May 1, 1990 | | | | | |
| | | Lois J. Bellaire a/k/a Lois Bellaire, a widow Mark A. Kraus a/k/a Mark Albert Kraus, a single | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 17.00% | 185A/17 128A/553 | | |
| | | man man Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 1.00% | 157A/540 | | |
| | | Melissa Campbell | SWN Production Compoany, LLC | 17.00% | 186A/505 | | |
| | | Merle Donna Wright a/k/a Merle Oates a/k/a Merle Donna Oates and Norman L. Wright, her husband | SWN Production Company, LLC | 14.00% | 184A/407 | | |
| | | Patrice Strachan, married dealing in her sole and separate property | SWN Production Company, LLC | 15.00% | 204A/925 | | |
| | | Patricia Ann McCann a/k/a Patty McCann, a/k/a Patricia A. McCann, a single woman | Chesapeake Appalachia, L.L.C. | 17.00% | 127A/367 | | |
| | | Chesapeake Appalachia, L.L.C. Robert A. Petitte, Jr. a/k/a Robert Petitte, Jr. and | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 12.50% | 157A/540 100A/858 | | |
| | | Anita F. Petitte, his wife Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 12.50% | 157A/540 | | |
| | | Ronald T. Frederickson and Jeanette Frederickson, | Chesapeake Appalachia, L.L.C. | 17.00% | 127A/372 | | |
| | | his wife Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | | |
| | | Suzanne Rexroad, a married woman daling in her sole and separate property | Chesapeake Appalachia, L.L.C. | 12.50% | 109A/29 | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | | |
| | | Silvia Phillips a/k/a Sylvia Phillips, a widow | Chesapeake Appalachia, L.L.C. | 17.00% | 134A/3 | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | | |
| | | Terri Barrow, a married woman dealing in her sole | SWN Production Company, LLC | 15.00% | 204A/776 | | |
| | | | SWN Production Company, LLC | 17.50% | 186A/507 | | |
| 5 | 3-1-13 | Susan Vieweg, his wife Cindy D. Adams and Randy G. Adams, her husband | Chesapeake Appalachia, LLC | 12.50% | 99A/435 | 0.0000% | |
| | | Chesapeake Appalachia, L.L.C. | Statoil USA Onshore Properties | | 120A/109 | | |
| | | Cheapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | | |
| | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | 47 | 158A/801 | | |
| | | Beth Ann Barnhart, a married woman dealing in her sole and separate property | Chesapeake Appalachia, LLC | 15.00% | 108A/789 | | |
| | | Chesapeake Appalachia, L.L.C. | Statoil USA Onshore Properties | | 120A/109 | RECEIVE | -D |
| | | Cheapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | FIECEIVE Office of Cilla | end C |
| | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | | 158A/801 | | |
| | | Bryan L. Gorby and Melanie C. Gorby, his wife | Chesapeake Appalachia, LLC | 12.50% | 100A/259 | JUL 1 4 2 | 2022 |
| | | Chesapeake Appalachia, L.L.C. | Statoil USA Onshore Properties | | 120A/109 | WW Denaitm | nent o |
| | | | SWN Production Company, LLC | | 157A/540 | ttv Depaitm Envir≎nmental P | Protec |
| | | Cheapeake Appalachia, L.L.C. | CM/M Droduction Community | | 158A/801 | | |
| | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | 40 500/ | 1044/077 | | |
| | | Statoil USA Onshore Properties Inc. Gregory A. Gorby, a/k/a Gregory Gorby and Cynthia | | 12.50% | 104A/377 | | |
| | | Statoil USA Onshore Properties Inc. | | 12.50% | 104A/377 120A/109 | | |
| | | Statoil USA Onshore Properties Inc. Gregory A. Gorby, a/k/a Gregory Gorby and Cynthia Gorby, his wife | Chesapeake Appalachia, LLC | 12.50% | | | |
| | | Statoil USA Onshore Properties Inc. Gregory A. Gorby, a/k/a Gregory Gorby and Cynthia Gorby, his wife Chesapeake Appalachia, L.L.C. | Chesapeake Appalachia, LLC Statoil USA Onshore Properties | 12.50% | 120A/109 | | |
| | | Statoil USA Onshore Properties Inc. Gregory A. Gorby, a/k/a Gregory Gorby and Cynthia Gorby, his wife Chesapeake Appalachia, L.L.C. Cheapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. Kevin Milliken, a married man dealing in his sole and | Chesapeake Appalachia, LLC Statoil USA Onshore Properties SWN Production Company, LLC SWN Production Company, LLC | 12.50% | 120A/109 157A/540 | | |
| | | Statoil USA Onshore Properties Inc. Gregory A. Gorby, a/k/a Gregory Gorby and Cynthla Gorby, his wife Chesapeake Appalachia, L.L.C. Cheapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. Kevin Miliken, a married man dealing in his sole and separate property | Chesapeake Appalachia, LLC Statoil USA Onshore Properties SWN Production Company, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC | | 120A/109 157A/540 158A/801 108A/568 | 08/26/202 | 02 |
| | | Statoil USA Onshore Properties Inc. Gregory A. Gorby, a/k/a Gregory Gorby and Cynthla Gorby, his wife Chesapeake Appalachia, L.L.C. Cheapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. Kevin Miliken, a married man dealing in his sole and separate property | Chesapeake Appalachia, LLC Statoil USA Onshore Properties SWN Production Company, LLC SWN Production Company, LLC | | 120A/109 157A/540 158A/801 | 08/26/202 | 22 |

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

| | TMP | LESSOR | LESSEE | ROYALTY | BK/PG | Interest Not Leased by SWN Production Company, LLC |
|------|--------|--|--|---------------|----------------------|---|
| | | Suzanne Rexroad, a married woman dealing in her | Chesapeake Appalachia, LLC | 15.00% | 108A/791 | |
| T. | | sole and separate property | Constant and the second second | | | |
| | | Chesapeake Appalachia, L.L.C. | Statoil USA Onshore Properties | | 117A/886 | |
| | | Cheapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| _ | | Statoil USA Onshore Properties Inc. | SWN Production Company, LLC | 11/2 | 158A/801 | 7.5540% |
| | 3-1-12 | Royalty Owners | N/A | N/A 17.00% | N/A 277A/88 | 7.3540% |
| | | Kevin R. Milliken, a married man dealing in his sole and separate property Beth Ann Barnhart, a married woman dealing in her | SWN Production Company, LLC SWN Production Company, LLC | 17.00% | 277A/83 | |
| | | sole and separate property Suzanne Rexroad, a married woman dealing in her | SWN Production Company, LLC | 17,00% | Pending | |
| | | sole and separate property Ruth Ann Gianni a/k/a Ruth Kelly, and Robert | SWN Production Company, LLC | 17.00% | 268A/47 | |
| | | Gianni, her husband Daniel P. Kelly, married dealing in his sole and | SWN Production Company, LLC | 17.00% | 268A/32 | |
| | | separate property Bernard V. Kelly, Jr. a/k/a Bernard Kelly, and Cheryl | SWN Production Company, LLC | 17.00% | 269A/565 | |
| - 11 | | L. Kelly Charles William Baier, widower | SWN Production Company, LLC | 17.00% | 268A/69 | 1 1 |
| | | Dona L. Smith, widow | SWN Production Company, LLC | 17.00% | 264A/158 | 1 |
| | | Clarita V. Bash, widow | SWN Production Company, LLC | 17.00% | 264A/190 | |
| | | Dennis M. Connelly and Cathy L. Connelly, his wife | SWN Production Company, LLC | 17.00% | 264A/523 | 1 |
| | | Timothy Allan Connelly and Lori A. W. Connelly, his | SWN Production Company, LLC | 17.00% | 264A/529 | |
| | | wife Margaret Daugherty, a widow | SWN Production Company, LLC | 17.00% | 269A/576 | |
| | | Donald K. Mason, widower | SWN Production Company, LLC | 17.00% | 268A/37 | 1 1 |
| | | Varena A. Hollingshead, single | SWN Production Company, LLC | 17.00% | 267A/472 | 1 1 |
| | | Michael A. Daugherty, a/k/a Michael Albert Daugherty, a married man dealing in his sole and | Chesapeake Appalachia, L.L.C. | 17.00% | 144A/87 | |
| | | separate property Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | Raymond B. Daugherty and Rheda N. Daugherty, his | | 17.00% | 264A/195 | |
| | | wife Sarah A. Lee, f/k/a Sally Stocks, and John E. Lee, her | SWN Production Company, LLC | 17.00% | 265A/938 | |
| | | husband Laura L. Borick, f/k/a Laura Lee Stocks, married | SWN Production Company, LLC | 17.00% | 265A/390 | |
| | | dealing in her sole and separate property Mary P. Christy, F/k/a Mary P. Morris, F/k/a/ Mary | SWN Production Company, LLC | 17.00% | 267A/445 | |
| | | Stocks, married dealing in her sole and separate property | Switt Production Company, LCC | 17.00% | 2074/440 | |
| | | Patrick T. Stocks, married dealing in his sole and separate property | SWN Production Company, LLC | 17.00% | 265A/396 | |
| | | Michelle LeCroy, f/k/a Michelle L. Dolin, and James R. LeCroy, her husband | SWN Production Company, LLC | 17.00% | 265A/428 | |
| | | Julie Stocks f/k/a Julie Marie Handy | SWN Production Company, LLC | 17.00% | 265A/412 | |
| | | Mary Snead, a/k/a Mary Louise Snead, married dealing in his sole and separate property | SWN Production Company, LLC | 17.00% | 265A/434 | |
| | | Martha A. Frank and Ronald J. Frank, her husband | SWN Production Company, LLC | 17.00% | 264A/535 | |
| | | Robert W. Milliken and Sandra Milliken, his wife | SWN Production Company, LLC | 17.00% | 264A/137 | |
| | | Tracy Lee Howard and Mary Kathryn Howard, his wife | SWN Production Company, LLC | 17.00% | 270A/442 | |
| | | | SWN Production Company, LLC | 17.00% | 278A/170 | |
| | | Debra Ann Piktel, married dealing in her sole and separate property | SWN Production Company, LLC | 17.00% | 277A/537 | |
| | | John Allan Moore, a/k/a John A. Moore, married dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 283A/423 | |
| | | Eric J. Moore, single | SWN Production Company, LLC | 17.00% | 277A/526 | |
| | | Bryan L. Gorby, married dealing in his sole and | SWN Production Company, LLC | 17.00% | 277A/93 | ETOTIVED |
| | | separate property Cindy Adams, married dealing in her sole and | SWN Production Company, LLC | 17.00% | 277A/98 | Cf2es of Clark Co |
| | | separate property Gregory A. Gorby, married dealing in his sole and | SWN Production Company, LLC | 17.00% | 278A/182 | JUL 1 4 2022 |
| | | separate property Joseph M. Martini, single | SWN Production Company, LLC | 17.00% | 278A/187 | |
| | | Richard M. Martini, single | SWN Production Company, LLC | 17.00% | 277A/909 | ttv Depaiment of Environmental Protect |
| | | | SWN Production Company, LLC | 17.00% | 283A/845 | Environmental Protect |
| | | and separate property | 0101 P. J. J. C | | | |
| | | Dorothy A. Baier, widow Kathleen M. Ciorra, married dealing in her sole and | SWN Production Company, LLC SWN Production Company, LLC | 17.00% | 285A/733 284A/419 | |
| | | separate property Betty Jean Stanley Connelly, widow | SWN Production Company, LLC | 17.00% | 284A/431 | |
| | | Joanne Lynn Schricker, married dealing in her sole | SWN Production Company, LLC | 17.00% | 284A/431 284A/413 | |
| | | and separate property | | | | |
| | | Laura Jean Mason, married dealing in her sole and separate property | SWN Production Company, LLC | 17.00% | 284A/425 | 08/26/2022 |
| | | Alice Ann Wise, single | SWN Production Company, LLC | 17.00% | 266A/6 | |

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

| 4 | 7 | 1 | 0 | 3 | 0 | 3 | 5 | 2 | 1 |
|---|---|---|---|---|---|-----|------|-------|---|
| | | | - | | | 344 | nur- | 10208 | |

| * | TMP | LESSOR | LESSEE | ROYALTY | BK/PG | Interest Not Leased by SWN Production Company, LLC |
|---|--------|---|--|--|---|---|
| | | Margaret McFarland Glaser, married dealing in her | SWN Production Company, LLC | 17.00% | 285A/784 | |
| | | sole and separate property Jeanne Strasser Geusz, married dealing in her sole | SWN Production Company, LLC | 17.00% | 281A/477 | 1 |
| | | and separate property Molly Strasser, single | SWN Production Company, LLC | 17.00% | 282A/537 | 4 |
| | | Robin Strasser, single | SWN Production Company, LLC | 17,00% | 282A/543 | 1 |
| | | Mark Edward Strasser | SWN Production Company, LLC | 12.50% | 281A/508 | |
| | | Kevin L. Strasser, single | SWN Production Company, LLC | 17,00% | 281A/489 | |
| | | Nancy Strasser Lehnhart, single | SWN Production Company, LLC | 17.00% | 283A/417 282A/480 | |
| | | Timothy J. Strasser, married dealing in his sole and separate property | SWN Production Company, LLC | 17.00% | 2024/480 | |
| | | Nicholas D. Strasser, married dealing in his sole and separate property | SWN Production Company, LLC | 17.00% | 281A/514 | |
| | | Mary Ann Strasser, widow Frank A. Farrell, married dealing in his sole and | SWN Production Company, LLC SWN Production Company, LLC | 17.00% | 282A/525 285A/761 | |
| | | separate property Bernard J. Farrell, single | SWN Production Company, LLC | 17.00% | 284A/443 | 4 |
| | | Marcus E. Farrell, a married man dealing in his sole | SWN Production Company, LLC | 17.00% | 284A/443 | |
| | 0 | and separate property | | | 1.200 | |
| | | Nancy Osborn, widow | SWN Production Company, LLC | 17.00% | 281A/439 | 4 |
| | | Varena J. Farrell Kessel, single | 5WN Production Company, LLC | 17.00% | 285A/772 | 4 |
| | | Stephen D. Thompson, married dealing in his sole and separate property | SWN Production Company, LLC | 17.00% | Pending | |
| | | Nancy J. Thompson, widow | SWN Production Company, LLC | 17.00% | 283A/833 | |
| | | Catherine B. DiFlorio, married dealing in her sole | SWN Production Company, LLC | 17.00% | 283A/400 | |
| | | and separate property Debra L. Phillips, single | SWN Production Company, LLC | 17.00% | 279A/633 | |
| | | Timothy J. Frederick and Pamela B. Frederick, a | SWN Production Company, LLC | 17.00% | 280A/364 | |
| | | married couple | SWN Production Company, LLC | 17.00% | 281A/483 | |
| | | Harold R. Byrd, single Christopher S. Byrd, single | SWN Production Company, LLC SWN Production Company, LLC | 17.00% | 281A/483 282A/469 | |
| | | Cathy L. Sneed, married dealing in her sole and | SWN Production Company, LLC | 17.00% | 281A/495 | |
| | | separate property | | | | |
| | 3-1-11 | Royalty Owners | N/A | N/A | N/A | 7.3000% |
| | | Kevin Milliken, married dealing in his sole and separate property | SWN Production Company, LLC | 17.00% | 261A/594 | |
| | | Robert A. Petitte, Jr., married dealing in his sole and separate property | SWN Production Company, LLC | 17.00% | 261A/829 | |
| | | Debra Piktel, married dealing in her sole and separate property | SWN Production Company, LLC | 17.00% | 261A/600 | |
| | | Eric J. Moore, single | SWN Production Company, LLC | 17,00% | 267A/441 | |
| | | Bryan L. Gorby, married dealing in his sole and separate property | SWN Production Company, LLC | 17,00% | 263A/831 | |
| | | Cindy Adams, married dealing in her sole and separate property | SWN Production Company, LLC | 17.00% | 261A/598 | |
| 1 | | Gregory Gorby, married dealing in his sole and separate property | SWN Production Company, LLC | 17.00% | 261A/596 | |
| | | Michael A. Daugherty, a/k/a Michael Albert Daugherty, a married man dealing in his sole and separate property | Chesapeake Appalachia, L.L.C. | 17,00% | 144A/83 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | Raymond B. Daugherty and Rheda N. Daugherty, his wife | SWN Production Company, LLC | 17.00% | 263A/315 | |
| | | | SMAI Develution Company 11C | | 0CEA /020 | |
| | | Sarah A. Lee, f/k/a Sally Stocks, and John E. Lee, her husband | SWN Production Company, LLC | 17.00% | 265A/938 | CONTRACTOR . |
| | | husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and | SWN Production Company, LLC | 17.00% | 265A/428 | Cry RECENTD |
| | | husband | | | | |
| | | husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband | SWN Production Company, LLC | 17,00% | 265A/428 | JUL 1 4 202 |
| | | husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate | SWN Production Company, LLC SWN Production Company, LLC | 17,00% | 265A/428 265A/412 | |
| | | husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and | SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC | 17.00% 17.00% 17.00% | 265A/428 265A/412 265A/434 | JUL 1 4 202 |
| | | husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property | SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC | 17.00% 17.00% 17.00% 17.00% | 265A/428 265A/412 265A/434 267A/446 | JUL 1 4 202 |
| | | husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and separate property Laura L. Borick, f/k/a Laura Lee Stocks, married | SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC | 17.00% 17.00% 17.00% 17.00% 17.00% | 265A/428 265A/412 265A/434 265A/434 265A/446 265A/396 | JUL 1 4 202 |
| | | husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and <u>separate property</u> Laura L. Borick, f/k/a Laura Lee Stocks, married dealing in her sole and separate property | SWN Production Company, LLC SWN Production Company, LLC | 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% | 265A/428 265A/412 265A/434 267A/446 265A/396 265A/390 | JUL 1 4 202 |
| | | husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and separate property Laura L. Borick, f/k/a Laura Lee Stocks, married dealing in her sole and separate property Robert W. Milliken and Sandra Milliken, his wife Martha A. Frank and Ronald J. Frank, her husband | SWN Production Company, LLC SWN Production Company, LLC | 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% | 265A/428 265A/412 265A/412 265A/414 265A/4146 265A/396 265A/390 265A/390 264A/137 264A/535 | JUL 1 4 202 |
| | | husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and separate property Laura L. Borick, f/k/a Laura Lee Stocks, married dealing in her sole and separate property Robert W. Milliken and Sandra Milliken, his wife Martha A. Frank and Ronald J. Frank, her husband Kathleen E. Daugherty, widow | SWN Production Company, LLC SWN Production Company, LLC | 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% | 265A/428 265A/412 265A/412 265A/434 267A/446 265A/396 265A/390 265A/390 264A/137 264A/535 269A/610 | JUL 1 4 202 |
| | | husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and separate property Laura L. Borick, f/k/a Laura Lee Stocks, married dealing in her sole and separate property Robert W. Milliken and Sandra Milliken, his wife Martha A. Frank and Ronald J. Frank, her husband Kathleen E. Daugherty, widow Alice Ann Wise, single John D. Wise, married dealing in his sole and | SWN Production Company, LLC SWN Production Company, LLC | 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% | 265A/428 265A/412 265A/412 265A/414 265A/4146 265A/396 265A/390 265A/390 264A/137 264A/535 | JUL 1 4 202 |
| | | husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and separate property Laura L. Borick, f/k/a Laura Lee Stocks, married dealing in her sole and separate property Robert W. Milliken and Sandra Milliken, his wife Martha A. Frank and Ronald J. Frank, her husband Kathleen E. Daugherty, widow Alice Ann Wise, single | SWN Production Company, LLC SWN Production Company, LLC | 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% | 265A/428 265A/412 265A/412 265A/434 267A/446 265A/396 265A/390 265A/390 264A/137 264A/535 269A/610 266A/6 | JUL 1 4 202 |
| | | husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and separate property Laura L. Borick, f/k/a Laura Lee Stocks, married dealing in her sole and separate property Robert W. Milliken and Sandra Milliken, hls wife Martha A. Frank and Ronald J. Frank, her husband Kathleen E. Daugherty, widow Alice Ann Wise, single John D. Wise, married dealing in his sole and separate property | SWN Production Company, LLC SWN Production Company, LLC | 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% | 265A/428 265A/412 265A/434 265A/434 265A/396 265A/390 265A/390 264A/137 264A/535 269A/610 266A/6 Pending | JUL 1 4 202 |
| | | husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and <u>separate property</u> Laura L. Borick, f/k/a Laura Lee Stocks, married dealing in her sole and separate property Robert W. Milliken and Sandra Milliken, his wife Martha A. Frank and Ronald J. Frank, her husband Kathleen E. Daugherty, widow Alice Ann Wise, single John D. Wise, married dealing in his sole and <u>separate property</u> Varena A. Hollingshead, single | SWN Production Company, LLC SWN Production Company, LLC | 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% | 265A/428 265A/412 265A/412 265A/434 265A/346 265A/396 265A/390 265A/390 264A/137 264A/535 269A/610 266A/6 Pending 267A/472 | JUL 1 4 202 |

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

| | TMP | LESSOR | LESSEE | ROYALTY | BK/PG | Interest Not Leased by SWN Production Company, LLC |
|-----|--------|--|--|---------|----------------------|---|
| - | | | SWN Production Company, LLC | 17.00% | 261A/99 | |
| | | wife Beth Ann Barnhart, a married woman dealing in her | SWN Production Company, LLC | 17.00% | Pending | 1 |
| | | sole and separate property | | 17.00% | D - diam | - 1 |
| | | Suzanne Rexroad, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 17.00% | Pending | |
| | | | SWN Production Company, LLC | 18.00% | 283A/423 | 1 |
| | | The second se | SWN Production Company, LLC | 17.00% | Pending | 4 |
| | | | | 17.00% | 285A/193 | |
| | | and separate property | Switt Plotaction company, eec | | and a sec | |
| | | Thomas Summers Daugherty, married dealing in her | SWN Production Company, LLC | 17.00% | Pending | 1 |
| | | sole and separate property Mary Louise Gault aka Mary Lou Gault, single | SWN Production Company, LLC | 17.00% | 279A/639 | |
| | | | SWN Production Company, LLC | 17.00% | 286A/514 | 1 |
| | | wife Benjamin F. Farrell, a single man | SWN Production Company, LLC | 17.00% | 283A/839 | 4 |
| | | | SWN Production Company, LLC | 17.00% | 284A/443 | 1 |
| | | | SWN Production Company, LLC | 17.00% | 285A/784 | |
| | | sole and separate property | | | _ | - |
| | | Jeanne Strasser Geusz, married dealing in her sole and separate property | SWN Production Company, LLC | 17.00% | 281A/477 | |
| | | | SWN Production Company, LLC | 17.00% | 282A/537 | 1 |
| | | | SWN Production Company, LLC | 17.00% | 282A/543 | 1 |
| | | Mark Edward Strasser | SWN Production Company, LLC | 12.50% | 281A/508 | 1 |
| 11/ | | Kevin L. Strasser, single | SWN Production Company, LLC | 17.00% | 281A/489 | 1 |
| -W | | Nancy Strasser Lehnhart, single | SWN Production Company, LLC | 17.00% | 283A/417 | 4 |
| | | | SWN Production Company, LLC | 17.00% | 282A/480 | |
| | | separate property Nicholas D. Strasser, married dealing in his sole and separate property | SWN Production Company, LLC | 17.00% | 281A/514 | |
| | | | SWN Production Company, LLC | 17,00% | 282A/525 | 1 |
| | | Frank A. Farrell, married dealing in his sole and | SWN Production Company, LLC | 17.00% | 285A/761 | 1 |
| | | separate property Marcus E. Farrell, a married man dealing in his sole and separate property | SWN Production Company, LLC | 17.00% | 284A/437 | |
| | | | SWN Production Company, LLC | 17,00% | 281A/439 | 1 1 |
| | | | SWN Production Company, LLC | 17.00% | 285A/772 | 1 1 |
| | | Kathleen M. Ciorra, married dealing in her sole and separate property | SWN Production Company, LLC | 17.00% | 284A/419 | |
| | | | SWN Production Company, LLC | 17.00% | 284A/431 | |
| | | Joanne Lynn Schricker, married dealing in her sole and separate property | SWN Production Company, LLC | 17.00% | 284A/413 | 1 1 |
| | | Laura Jean Mason, married dealing in her sole and separate property | SWN Production Company, LLC | 17.00% | 284A/425 | 1 |
| | | and separate property | SWN Production Company, LLC | 17.00% | Pending | |
| | | Clifford J. Thompson, Jr., married dealing in his sole and separate property Nancy I. Thompson, widow | | 17.00% | 283A/845 | FECEWER |
| | | | SWN Production Company, LLC SWN Production Company, LLC | 17.00% | 283A/833 283A/400 | |
| | | and separate property | | | | |
| | | | SWN Production Company, LLC | 17.00% | 285A/733 | JUL 1 4 20 |
| | | | SWN Production Company, LLC | 17.00% | 263A/489 | |
| | | Thomas C. Wise, married dealing in his sole and separate property | SWN Production Company, LLC | 17.00% | Pending | Environmental Pro |
| | | Cathy L. Sneed, married dealing in her sole and separate property | SWN Production Company, LLC | 17.00% | 281A/495 | Envirenmental Pro |
| | | | SWN Production Company, LLC | 17.00% | 282A/469 | |
| | | | SWN Production Company, LLC | 17.00% | 281A/483 | - |
| | | Timothy J. Frederick and Pamela B. Frederick, a married couple | SWN Production Company, LLC | 17.00% | 280A/364 | |
| | | | SWN Production Company, LLC | 17.00% | 277A/909 | 1 |
| 1 | | Joseph M. Martini, single | SWN Production Company, LLC | 17.00% | 278A/187 | · · · · · · · · · · · · · · · · · · · |
| | 3-1-10 | | N/A | N/A | N/A | 21.5412% |
| | | | SWN Production Company, LLC | 17.00% | 263A/305 | |
| | | Santonas, widow Alice Ann Wise, single | SWN Production Company, LLC | 17.00% | 266A/6 | 4 |
| | | | SWN Production Company, LLC SWN Production Company, LLC | 17.00% | 266A/6 264A/216 | 4 |
| | | separate property | SWN Production Company, LLC | 17.00% | | |
| | | Construction of the constr | SWN Production Company, LLC SWN Production Company, LLC | 17.00% | 263A/300 265A/402 | 4 |
| | | husband | SWN Production Company, LLC SWN Production Company, LLC | 17.00% | 265A/402 269A/565 | 4 |
| | | L. Kelly, his wife | | | 1 | |
| | | | SWN Production Company, LLC | 17.00% | 279A/705 | |
| | | | SWN Production Company, LLC | 17.00% | 284A/170 | |
| | | Cathy L. Sneed, married dealing in her sole and separate property | SWN Production Company, LLC | 17.00% | 281A/495 | 08/26/2022 |
| | | Church of Christ Coschocton | | 17.00% | 282A/520 | 4 |

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

4710303521

| Dou L, Salay, vadow WW Production Company, LIC 12.006 3204/33 Dou L, Salay, vadow WW Production Company, LIC 14.007 3204/33 Douglas R, Annold and Chanyll A, Annolk Na W, WP Production Company, LIC 14.007 3204/33 Edward K-Linkan, Yangh SVM Production Company, LIC 14.007 3204/33 Edward K-Linkan, Tampiel Anno, Salay B, Infer SVM Production Company, LIC 17.007 Production Company, LIC Down A, Sanay M, Salay B, Infer SVM Production Company, LIC 17.007 Production Company, LIC Down A, Sanay M, Salay B, Infer SVM Production Company, LIC 17.007 Production Company, LIC Down A, Sanay M, Sanay M, Salay B, Infer SVM Production Company, LIC 17.007 20.004/05 Garry Wayre Dokalon, J., manning doaling In hit cox SVM Production Company, LIC 18.009 Production Company, LIC 18.009 Davies R, Linkan K, Linkan K, Linkan K, Linkan K, Linkan K, Linkan K, Kin K, WM Production Company, LIC 18.009 20.004/05 Garry Wayre Dokalon, J., manning doaling In hit cox SVM Production Company, LIC 18.009 20.004/05 Davies R, Linkan K, Linkan K, Kin WM, M M, Production Company, LIC 19.009 | тмр | LESSOR | LESSEE | ROYALTY | BK/PG | Interest Not Leased by SWN Production Company, LLC |
|--|-----|--|-----------------------------|---------|----------|---|
| First Wate: SNP Production Company, LC 11.00% 220,456 Edges R. Envig and Complex, member density, in the MP Production Company, LC 11.00% 2444/26 Edges R. Envig and Complex, member density in the MP Production Company, LC 11.00% 2444/26 Inhuma Samon Daglinghim, member density in the MP Production Company, LC 11.00% 2444/26 Edges R. Envig and Complex, member density in the MP Production Company, LC 11.00% 2464/26 Edges R. Envig and Complex, member density in the MP Production Company, LC 11.00% 2464/26 Edges R. Envig and Complex, member density in the MP Production Company, LC 11.00% 2464/26 Edges R. Envig and Complex, member density in the MP Production Company, LC 11.00% 2464/26 Edges R. Mark Teles, member density in the MP Production Company, LC 11.00% 2464/26 Edges R. Mark Teles, member density in the Sim Production Company, LC 11.00% 2464/26 Edges R. Mark Teles, M. Mark Teles, M. MP Production Company, LC 11.00% 2464/26 Edges R. Mark Teles, M. Mark Teles, M. MP Production Company, LC 11.00% 2464/26 Edges R. Mark Teles, M. Mark Teles, M. Mark Teles, M. MP Production Company, LC 11.00% 2464/26 | | Dona L. Smith, widow | SWN Production Company, LLC | 17.00% | 261A/113 | |
| Daugha X, Annual and Chary D, Annakl, Ibi anfie XMP Production Company, LLC 17.096 204.4256 Clauset MUSAINST Charge T, married dauling in Ibi Mile and approximate and approximate many difference of the second secon | | Donald K. Mason, widower | SWN Production Company, LLC | 17.00% | 261A/93 | |
| Daugha X, Annual and Chary D, Annakl, Ibi anfie XMP Production Company, LLC 17.096 204.4256 Clauset MUSAINST Charge T, married dauling in Ibi Mile and approximate and approximate many difference of the second secon | | | | 16.00% | 282A/560 | 1 |
| Image: Second | | | | | | |
| bit and sparsing property 17.00% Preding bit and sparsing property 100% 17.00% 18.44/19 bit and sparsing property 100% 100% 100% 100% cit and sparsing property 100% 100% 100% 100% cit and sparsing property 100% 100% 100% 100% cit and sparsing property 100% 100% 100% 100% 100% cit and sparsing property 100% | | | | | | |
| bit and source property 100% 2155/139 bit and source property 20% Production Company, LLC 17.00% 2155/139 c. Sum Source in Company, LLC 17.00% 2155/139 255/139 c. Sum Source in Company, LLC 17.00% 2155/139 G. Sum Source in Company, LLC 17.00% 2155/139 G. Sum Source in Company, LLC 17.00% 255/139 G. Sum Source in Company, LLC 17.00% 256/139 G. Sum Source in Company, LLC 17.00% 256/139 G. Sum Source in Company, LLC 17.00% 266/179 G. Sum Source in Company, LLC 17.00% 286/179 | | sole and separate property | | | 204A/200 | |
| Ribbard Balayter, marked dating in https://www.network.com/opers/t.LC 17.00% 255/439 Balay A, Jange D, Sugders, Jange D, Santo S, Santo M, Santo | | | SWN Production Company, LLC | 17.00% | Pending | |
| Name J. Bunghama, media SWN Production Company, LLC 17.20% Pending G. Jano Sackson and Mathem Start Statuto, In-Markal Mark Poduktion Company, LLC 17.20% 2854/241 Gail Thomas For and Barkam Arne For, Ma wife NW Poduktion Company, LLC 18.00% Pending Gary Wayne Drahem, Jr., marted Galling In Na cole SWN Poduktion Company, LLC 18.00% 2864/241 Gary Wayne Drahem, Sr., marted Galling In Na cole SWN Poduktion Company, LLC 18.00% 2864/243 Barder F. Sarrow, marted Galling In Na cole and SWN Poduktion Company, LLC 17.00% 2864/243 Barder F. Sarrow, marted Galling In Na cole and SWN Poduktion Company, LLC 17.00% 2864/243 Barder F. Sarrow, marted Galling In Na cole and SWN Poduktion Company, LLC 17.00% 2864/243 Barder F. Sarrow, marted Galling In Na cole and SWN Poduktion Company, LLC 17.00% 2864/243 Barder K. Sarrow, marted Galling In Na cole and SWN Poduktion Company, LLC 17.00% 2864/243 Barder K. Sarrow, marted Galling In Na cole and SWN Poduktion Company, LLC 17.00% 2864/245 Barder K. Sarrow, marted Galling In Na cole and SWN Produktion Company, LLC 17.00% 2864/245 Barder K. Sarow, Mareed Galling In Na cole and SWN Produktion Company, LLC </td <td></td> <td>Richard Albert Daughtery, married dealing in his</td> <td>SWN Production Company, LLC</td> <td>17.00%</td> <td>285A/193</td> <td></td> | | Richard Albert Daughtery, married dealing in his | SWN Production Company, LLC | 17.00% | 285A/193 | |
| C. Jam Stocken and Robert Stockton, her Hudbard WM Production Company, LLC 17 20% 284/4941 Gall Towner For and Barbart Annot for his will NM Production Company, LLC 17 20% 284/4951 Gray Waves Dahnhai, Sr., mandrid dating in his old DMP Production Company, LLC 18 20% Pending Gray Waves Dahnhai, Sr., mandrid dating in his old DMP Production Company, LLC 19 20% 284/4973 Gala Barbart Stockton, unrefed dating in his old and DMP Production Company, LLC 19 20% 284/4973 Gala Barbart Stockton, unrefed dating in his old and DMP Production Company, LLC 19 20% 284/4973 Gala Barbart Stockton, unrefed dating in his old and DMP Production Company, LLC 19 20% 284/4973 Gala Barbart Stockton, unrefed dating in his old and DMP Production Company, LLC 19 20% 284/4973 Gala Barbart Stockton, unrefed dating in his old and DMP Production Company, LLC 19 20% 284/4973 Gala Barbart Stockton, unrefed dating in his old and DMP Production Company, LLC 19 20% 284/4974 Headool Exer, angle DMM Production Company, LLC 19 20% 284/498 The accol Barbart, angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart, angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart, angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart, angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart, angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart Angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart Angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart Angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart Angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart Angle DMP Production Company, LLC 19 20% 284/498 Davie E. Corby and Barby Luc Garby, Na wife DMM Production Company, LLC 19 20% 284/498 Davie E. Corby and Barby Luc Garby, Na wife DMM Production Company, LLC 19 20% 284/498 Davie E. Corby and Barby Luc Garby, Na wife DMM Production Company, LLC 19 20% 284/498 Davie E. Corby and Barby Luc Garby, Na wife DMM Production Company, LLC 19 20% 284/498 Davie E | | | SWN Production Company, LLC | 17.00% | Pending | |
| Gery Wayne Drahen, Jr., marted dealing in his sole 2014 Sector 2015 SNN Production Company, LLC 18.00% Pending 2484/837 Gels end ageate accentry case and ageate accentry intervent intervent accentry intervent accentry intervent intervent accentry intervent accentry interven | | | | 17.00% | | |
| and agents property Surviva Dealers, S., marked dealing in Mar. Solver, M. 1999. 15.00%. 258.4757 Boulds, R., Harmon, marked dealing in Nar. Solver, and S. W.M. Production Company, LLC 17.00%. 284.4758 Baseder, P., Harmon, marked dealing in Nar. Solver, and S. W.M. Production Company, LLC 17.00%. 284.4788 Baseder, P., Harmon, marked dealing in Nar. Solver, and S. W.M. Production Company, LLC 17.00%. 284.4748 Baseder, M., Solver, S. W.M. Production Company, LLC 17.00%. 284.4748 Baseder, M., Basedon, M., Barton, M., Barton, M.M. Production Company, LLC 17.00%. 284.4748 Baseder, M., Basedon, M., Barton, M., Barton, M.M. Production Company, LLC 17.00%. 284.4748 Baseder, M., Basedon, M., Barton, | | Gail Thomas Fox and Barbara Anne Fox, his wife | SWN Production Company, LLC | 17.00% | 265A/385 | |
| Gary Wards Datakin, S., martinel dealing in his SWN Production Company, LLC 12.00% 2284/357 Bruce R., Hermon, morried dealing in his sole and segretize accessity. SWN Production Company, LLC 17.00% 2284/273 Gara Martinel dealing in his sole and segretize accessity. SWN Production Company, LLC 17.00% 2284/273 Gara Martinel dealing in his sole and SWN Production Company, LLC 17.00% 2284/273 Harold R., Boyd, single SWN Production Company, LLC 17.00% 2284/278 Harold R., Boyd, single SWN Production Company, LLC 17.00% 2284/278 Boyd, H., McConad, morried dealing in his sole and SWN Production Company, LLC 17.00% 2284/278 David W. Gordy, and Barty, Luc Gordy, Nu WR SWN Production Company, LLC 17.00% 2284/288 Buse E. Gordy and Earty Luc Gordy, Nu WR SWN Production Company, LLC 17.00% 2284/288 Buse E. Gordy and Earty Luc Gordy, Nu WR SWN Production Company, LLC 17.00% 2284/288 Buse E. Gordy and Earty Luc Gordy, Nu WR SWN Production Company, LLC 17.00% 2284/281 Buse E. Gordy and Earty Luc Gordy, Nu WR SWN Production Company, LLC 17.00% 2284/28 | | | SWN Production Company, LLC | 18.00% | Pending | |
| Bace R. Harmon, married dealing in hit sole and SWN Production Company, LLC 17.00% 284/056 Hawley F. Harmon, married dealing in hit sole and SWN Production Company, LLC 17.00% 284/173 Hawley F. Harmon, married dealing in hit sole and SWN Production Company, LLC 17.00% 284/174 Hawley F. Harmon, married dealing in hit sole and SWN Production Company, LLC 17.00% 284/174 Have S. Harmon, married dealing in hit sole and SWN Production Company, LLC 17.00% 284/178 Idealua Lake Harmon, single SWN Production Company, LLC 17.00% 284/178 Type Jacob Harmon, single SWN Production Company, LLC 17.00% 284/178 David Lake Harmon, single SWN Production Company, LLC 17.00% 284/178 David Lake Harmon, single SWN Production Company, LLC 17.00% 284/178 David Lake Harmon, single SWN Production Company, LLC 17.00% 284/178 David Lake Harmon, single SWN Production Company, LLC 17.00% 284/178 David Lake Harmon, single SWN Production Company, LLC 17.00% 284/178 David Lake Harmon, Single SWN Production Company, LLC 17.00% 284/17 | | Gary Wayne Draheim, Sr., married dealing in his | SWN Production Company, LLC | 18.00% | 263A/837 | |
| Hawley P, Harmon, married dasling in his sole and generate program. SVN Production Company, LLC 13.00% 284/373 General Encod Dain, single SVN Production Company, LLC 13.00% 284/148 Harrol R, Boyd, Single SVN Production Company, LLC 17.00% 287/118 Bach LH, MacDonald, married dasling in her cole and SVN Production Company, LLC 17.00% 284/378 Davia Leavi Hermon, stagle SVN Production Company, LLC 17.00% 284/378 Tyler Jacob Harmon, single SVN Production Company, LLC 17.00% 284/378 Dow H, MacDonald, married dasling in his sole and SVN Production Company, LLC 17.00% 284/378 Davia Leavi Hermon, single SVN Production Company, LLC 17.00% 284/421 Andre Enratic Good Carl, A Fax, Iki wife SVN Production Company, LLC 17.00% 284/421 Andre Enratic Good Carl, A Fax, Iki wife SVN Production Company, LLC 17.00% 284/421 Andre Enratic Good Carl, A Fax, Iki wife SVN Production Company, LLC 17.00% 284/421 Andre Enratic Good Carl, A Fax, Iki wife SVN Production Company, LLC 17.00% 284/421 Andre Enratic Good Carl, A Fax, Iki wife SVN Production Company, LLC 17.00% | | Bruce R. Harmon, married dealing in her sole and | SWN Production Company, LLC | 17.00% | 286A/506 | |
| Gend & Biwdo Dean, angle SWN Production Company, LIC 13.00% 224/148 Fach K. Boyd, angle dashig in her sole and SWN Production Company, LIC 17.00% 281/118 Boy H. MacDonald, married dashig in her sole and SWN Production Company, LIC 17.00% 281/118 Darbu Lew H. Bronn, single SWN Production Company, LIC 17.00% 281/138 Darbu Lew H. Bronn, single SWN Production Company, LIC 17.00% 281/138 Davie L. M. Bronn, single SWN Production Company, LIC 17.00% 281/148 Davie M. Gorty and Caroll. Garby, his wife SWN Production Company, LIC 17.00% 281/1460 Davie M. Gorty and Caroll. Garby, his wife SWN Production Company, LIC 17.00% 281/1460 Mark F. Garby and Caroll. Garby, Mi wife SWN Production Company, LIC 17.00% 281/1460 Mark E. And Garby Builer n/U/a Melicsa Ann Buder, SWN Production Company, LIC 17.00% 281/1460 Mark E. And Garby Biwler n/U/a Melicsa Ann Buder, SWN Production Company, LIC 17.00% 281/1450 Jaho D. Wile, married dastig in the sole and SWN Production Company, LIC 17.00% 288/121 John D. Wile, married d | | Hawley P. Harmon, married dealing in his sole and | SWN Production Company, LLC | 17.00% | 284A/373 | |
| service it. Boyd, snared dating in her sole and SWN Production Company, LLC 17.00% 2217/113 Endity I. MancOoking, nameld SWN Production Company, LLC 17.00% 2287/113 Endity K. Hamoo, Imaged SWN Production Company, LLC 17.00% 2287/113 Endity K. Hamoo, Imaged SWN Production Company, LLC 17.00% 2281/483 Typic Jacobs Larous Single SWN Production Company, LLC 17.00% 2281/483 David W. Gorby, married dating in his sole and sparse for and Carol. Leady, his wife SWN Production Company, LLC 17.00% 2281/483 David W. Gorby, married dating in his sole and sparse for and Carol. Leady, his wife SWN Production Company, LLC 17.00% 2281/483 James D. Fear and Rowds L. Gorby SWN Production Company, LLC 17.00% 2281/483 James D. Fear and Rowds L. Gorby SWN Production Company, LLC 17.00% 2281/483 John M. Tameire Gorby, single SWN Production Company, LLC 17.00% 2281/483 John M. Stein, single SWN Production Company, LLC 17.00% 2281/483 John D. Mamor and Bhonds L. Gorby SWN Production Company, LLC 17.00% 2281/483 John D. Stein, single SWN Production Company, LLC 17.00% 2881/483 | | | SWN Production Company, LLC | 18.00% | 264A/148 | |
| Boby K. NacConst, married dealing in her sole and SWN Production Company, LLC 17.00% 287/116 Endy K. Harrion, married SWN Production Company, LLC 10.00% 284/378 Linbu Levik Stremos, Jungié SWN Production Company, LLC 17.00% 283/458 Doubl W. Gotty, Amaria dealing in his sole and separate property SWN Production Company, LLC 17.00% 278/458 Doubl W. Gotty, Amaria dealing in his sole and separate property SWN Production Company, LLC 17.00% 281/459 Duals K. Senty and Carol L. Gotty, Jia Wife SWN Production Company, LLC 17.00% 281/459 Marias F. For and Lori A. For, Na Wife SWN Production Company, LLC 17.00% 284/423 John N. Contry and Brinds L. Gotty SWN Production Company, LLC 17.00% 284/423 John D. Was, married dealing in his sole and sparate property SWN Production Company, LLC 17.00% 284/423 John D. Was, married dealing in his sole and sparate property SWN Production Company, LLC 17.00% 284/423 John D. Was, married dealing in his sole and sparate property SWN Production Company, LLC 17.00% 284/423 John D. Was, married dealing in his sole and sparate property SWN Production Company, LLC 17.00% 284/424 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| Emily, L. Harmon, married SWN Production Company, LLC 10.00% 284/378 Lorbu Law Starbarnon, single SWN Production Company, LLC 17.00% 293/458 Bruce E. Gorby and Batty, Lou Gorby, Ihs wife SWN Production Company, LLC 17.00% 2734/462 Depid W. Gorby, married dealing in his sole and SWN Production Company, LLC 17.00% 2734/463 Brance D. Gorby and Carol L. Gorby, Ihs wife SWN Production Company, LLC 17.00% 284/460 Mailsa Ann Gorby Butter n/M Mellisa Ann Butter, SWN Production Company, LLC 17.00% 284/4211 Andre Emire Gorby, single SWN Production Company, LLC 17.00% 284/4211 Andre Emire Gorby, single SWN Production Company, LLC 17.00% 284/4211 Andre Emire Gorby, single SWN Production Company, LLC 17.00% 2824/549 Marchall K. Gorby and Rhonda L. Gorby SWN Production Company, LLC 17.00% 2824/541 John D. Wae, married dealing in his sole and SWN Production Company, LLC 17.00% 2864/611 John D. Suphern, single SWN Production Company, LLC 17.00% 2864/614 Lartin Dia Drahem, single SWN Production Company, LLC 17.00% 2864/614 | | | | | | 1 |
| Jastras Levis Harmon, single SWN Production Company, LLC 17.00% 228.4/268 Tyler Jacob Harmon, single SWN Production Company, LLC 17.00% 2278.4/85 Bruze, E. Gorty and Betty Los Gorby, his wife SWN Production Company, LLC 17.00% 278.4/85 David W. Gorby, married dealing in his sole and SWN Production Company, LLC 17.00% 278.4/85 Dealin K. Gorby and Carol L. Gorby, his wife SWN Production Company, LLC 17.00% 278.4/85 Metissa Ann Gorby Buller r/N/M Mellass Ann Butler, Jingle SWN Production Company, LLC 17.00% 288.4/460 James D. Fox and Lori A. Fox, his wife SWN Production Company, LLC 17.00% 284.4/211 Andre Ennie Gorby, single SWN Production Company, LLC 17.00% 284.4/231 James D. Fox and Lori A. Fox, his wife SWN Production Company, LLC 17.00% 284.4/231 James D. Fox and Lori A. Fox, his wife SWN Production Company, LLC 17.00% 284.4/231 James D. Fox and Lori A. Fox, his wife SWN Production Company, LLC 17.00% 286.4/231 James D. Fox and Lori A. Fox, his wife SWN Production Company, LLC 17.00% 286.4/231 Loth D. W. Longherity and Mary Ana Android, Single | | | SWN Production Company, LLC | 16.00% | 284A/378 | |
| Tyler Jacob Harmon, single SWN Production Company, LLC 17.00% 233.4/561 Bruce E. Gorby and Berty Lou Gorby, his wife SWN Production Company, LLC 17.00% 279.4/528 Devid W. Gorby, married dealing in his sole and segarate property SWN Production Company, LLC 17.00% 279.4/528 Devin N. Gorby and Carol L. Gorby, his wife SWN Production Company, LLC 17.00% 281.4/460 Melias And Gorby Butter N/LS Melissa Ann Butler, NYM Production Company, LLC 17.00% 284.4/211 Andre Emaile Gorby, single SWN Production Company, LLC 17.00% 284.4/211 Andre Emaile Gorby, single SWN Production Company, LLC 17.00% 284.4/211 Jahon D. Wae, married dealing in his sole and SWN Production Company, LLC 17.00% 284.4/31 Jahon D. Wae, married dealing in Na sole and SWN Production Company, LLC 17.00% 288.4/31 Jahon D. Wae, married dealing in Na sole and SWN Production Company, LLC 17.00% 288.4/31 Jahon W. Bund, L. Gorby N. Broduction Company, LLC 17.00% 288.4/31 Jahon W. Bund, L. Gorby Sine Production Company, LLC 17.00% 288.4/31 Jahon W. Bund, L. Gorby Sine Production Company, LLC 17.00% 288.4/31 Jahon W. Bund, L. Go | | | | | | |
| Broce E. Gorby and Betty Lou Gorby, his wife SWN Production Company, LLC 17.00% 279A/682 Devid W. Gorby, married dealing in his sole and segret to projectly SWN Production Company, LLC 17.00% 229A/628 Devid W. Gorby, married calling in his sole and single SWN Production Company, LLC 17.00% 229A/628 Lames D. For and Lori A. Fox, Nie wife SWN Production Company, LLC 17.00% 254A/211 Andra Emmit Gorby, single SWN Production Company, LLC 17.00% 254A/211 Andra Emmit Gorby, single SWN Production Company, LLC 17.00% 254A/211 Andra Emmit Gorby, single SWN Production Company, LLC 17.00% 254A/211 Janet Clank Ellowy and Bhonda L. Gorby SWN Production Company, LLC 17.00% 254A/211 Janet Clank Ellowy dow SWN Production Company, LLC 17.00% 254A/211 Julis Books, fi/V, Julio Marie Handy, angle SWN Production Company, LLC 17.00% 254A/211 Julis Diaberry and Mary Jane Daugherty, Mis SWN Production Company, LLC 17.00% 254A/211 Julis Diaberry and Mary Jane Daugherty, Mis SWN Production Company, LLC 17.00% 254A/211 Laws E E Annold and Mary Ann Annold, his wife SWN Production Company, LLC </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| David W. Gorby, married daaling in his sole and separate projectry SWN Production Company, LLC 17.00% 278A/628 Davia N. Gorby, married daaling in his sole and single SWN Production Company, LLC 17.00% 278A/628 Mailsa Ann Gorby Butter nt/A Mellisa Ann Butler, single SWN Production Company, LLC 17.00% 288A/281 Andre Emwine Gorby, singlin SWN Production Company, LLC 17.00% 288A/281 Andre Emwine Gorby, singlin SWN Production Company, LLC 17.00% 288A/281 John D. Wise, married daaling in his sole and segarate Brogenty. SWN Production Company, LLC 17.00% 288A/281 Jand Cark Ellock, widow SWN Production Company, LLC 17.00% 288A/821 Jank Cark Ellock, widow SWN Production Company, LLC 17.00% 288A/821 Jank Cark, Mick Julie Martel Fandy, single SWN Production Company, LLC 17.00% 288A/821 Jank Cark, Kilow Jane Daugherry, Nic SWN Production Company, LLC 17.00% 288A/821 Jahr N. Tommary, J/A Catherine Linbaugh, si/A SWN Production Company, LLC 17.00% 288A/821 Jahr N. Tommary, J/A Catherine Linbaugh, si/A SWN Production Company, LLC 1 | | | | | | |
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| Imaining Antibility in the sole and SWN Production Company, LLC 17.00% 265X/610 separate property Martha A. Frank and Ronald J. Frank, her husband SWN Production Company, LLC 17.00% 264A/535 Mary Louise Gault aka Mary Lou Gault, single SWN Production Company, LLC 17.00% 279A/639 Mary Snead, a/k/a Mary Louise Snead, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 265A/434 Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 267A/446 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, L | | Louis David Williams, Jr., married dealing in his sole | SWN Production Company, LLC | 18.00% | 268A/58 | |
| Imaining Antibility in the sole and SWN Production Company, LLC 17.00% 265X/610 separate property Martha A. Frank and Ronald J. Frank, her husband SWN Production Company, LLC 17.00% 264A/535 Mary Louise Gault aka Mary Lou Gault, single SWN Production Company, LLC 17.00% 279A/639 Mary Snead, a/k/a Mary Louise Snead, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 265A/434 Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 267A/446 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, L | | | SWN Production Company, LLC | 17.00% | 269A/576 | WV Depart |
| Martha A. Frank and Ronald J. Frank, her husband SWN Production Company, LLC 17.00% 264A/535 Mary Louise Gault aka Mary Lou Gault, single SWN Production Company, LLC 17.00% 279A/639 Mary Snead, a/k/a Mary Louise Snead, married dealing In her sole and separate property SWN Production Company, LLC 17.00% 265A/434 Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 267A/446 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 144A/79 | | | SWN Production Company, LLC | 17.00% | 263A/816 | L |
| Mary Snead, a/k/a Mary Louise Snead, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 265A/434 Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 267A/446 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Marcle A. Daugherty, a/k/a Michael Albert Chesapeake Appalachia, L.L.C. 17.00% 144A/79 08/26/2 | | | SWN Production Company, LLC | 17.00% | 264A/535 | |
| dealing In her sole and separate property Image: Company and Company | | Mary Louise Gault aka Mary Lou Gault, single | SWN Production Company, LLC | 17.00% | 279A/639 | |
| Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary SWN Production Company, LLC 17.00% 267A/446 Stocks, married dealing in her sole and separate SWN Production Company, LLC 17.00% 285A/790 Marcie Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Michael A. Daugherty, a/k/a Michael Albert Chesapeake Appalachia, L.L.C. 17.00% 144A/79 08/26/2 | | | SWN Production Company, LLC | 17.00% | 265A/434 | |
| property Marcie Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Michael A. Daugherty, a/k/a Michael Albert Chesapeake Appalachia, L.L.C. 17.00% 144A/79 08/26/5 | | Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary | SWN Production Company, LLC | 17.00% | 267A/446 | |
| separate property Michael A. Daugherty, a/k/a Michael Albert Chesapeake Appalachia, L.L.C. 17.00% 144A/79 | | property | SWN Production Company, LLC | 17.00% | 285A/790 | |
| Daugherty, a married man dealing in his sole and OO/20/. | | separate property | | | | 08/26/2 |
| separate property | | Daugherty, a married man dealing in his sole and | | 27.0070 | | 00/20/2 |

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

4710303521

| # | ТМР | LESSOR | LESSEE | ROYALTY | BK/PG | Interest Not Leased by SWN |
|------------|-----|---|---|---------|----------------------|----------------------------|
| <i>а</i> т | | | | 15.00% | 193A/115 | Production Company, LLC |
| | | Bernard J. Farrell, a single man | Antero Resources Corporation | 12.00% | 193A/115 272A/588 | |
| | | Antero Resources Corporation Jeanne Strasser Geusz, married dealing in her sole | SWN Production Company, LLC SWN Production Company, LLC | 17.00% | 272A/588 281A/477 | |
| | | and separate property | - ·· | | | |
| | | Melodie Rochelle, married dealing in her sole and separate property | SWN Production Company, LLC | 17.00% | 285A/745 | |
| | | Molly Strasser, single | SWN Production Company, LLC | 17.00% | 282A/537 | |
| | | Nancy Strasser Lehnhart, single | SWN Production Company, LLC | 17.00% | 283A/417 | |
| | | Nicholas D. Strasser, married dealing in his sole and | SWN Production Company, LLC | 17.00% | 281A/514 | |
| | | separate property Kevin L. Strasser, single | SWN Production Company, LLC | 17.00% | 281A/489 | |
| | | Timothy J. Strasser, married dealing in his sole and | SWN Production Company, LLC | 17.00% | 282A/480 | |
| | | separate property | Antero Resources Corporation | 15.00% | 190A/413 | |
| | | Frank A. Farrell Antero Resources Corporation | SWN Production Company, LLC | 15.00% | 272A/588 | |
| | | Marcus E. Farrell, a married man dealing in his sole | Antero Resources Corporation | 15.00% | 189A/427 | |
| | | and separate property | | | | |
| | | Antero Resources Corporation | SWN Production Company, LLC | 15.00% | 272A/588 | |
| | | Nancy Osborn, a single woman | Antero Resources Corporation SWN Production Company, LLC | 15.00% | 189A/438 272A/588 | |
| | | Antero Resources Corporation Varena J. Kessel, a married woman dealing in her | Antero Resources Corporation | 15.00% | 189A/322 | |
| | | sole and separate property | | | | |
| | | Antero Resources Corporation | SWN Production Company, LLC | | 272A/588 | |
| | | Raymond B. Daugherty and Rheda N. Daugherty, his wife | SWN Production Company, LLC | 17.00% | 263A/315 | |
| | | Raymond J. Daugherty and Dianna H. Daugherty, his | SWN Production Company, LLC | 17.00% | 261A/835 | |
| | | wife Rex Wilburn, widower | SWN Production Company, LLC | 17.00% | 261A/819 | |
| | | Rex Wildum, widower Richard M. Martini, single | SWN Production Company, LLC | 17.00% | 201A/819 277A/909 | |
| | | Edward Franklin Estes, married dealing in his sole | SWN Production Company, LLC | 17.00% | 282A/570 | |
| | | and separate property | | | | |
| | | Robert Michael Wayne Draheim, single | SWN Production Company, LLC | 18.00% | 266A/1 | |
| | | Robert W. Milliken and Sandra Milliken, his wife | SWN Production Company, LLC | 17.00% | 264A/137 | |
| | | Roberta A. Raymond, widow | SWN Production Company, LLC | 17.00% | 263A/489 | |
| | | Linda Sue Horton-Ray | SWN Production Company, LLC | 17.00% | 285A/795 | |
| | | Roscoe Village Foundation, Inc. | SWN Production Company, LLC | 17.00% | 282A/475 | |
| | | Rose Ann McGillvary and Daniel R. McGillvary, her husband | SWN Production Company, LLC | 17.00% | 265A/944 | |
| | | Roy Howard McKinney, a married man dealing in his | SWN Production Company, LLC | 17.00% | 277A/144 | |
| | | sole and separate property Ruth Ann Gianni, a/k/a Ruth Kelly, and Robert | SWN Production Company, LLC | 17.00% | Pending | |
| | | Gianni, her husband | SWAI Production Common 11C | 17.00% | 2654/028 | |
| | | Sarah A. Lee, f/k/a Sally Stocks, and John E. Lee, her husband | Swik Production Company, LLC | 17.00% | 265A/938 | |
| | | Lynn Brockman Ellis, married dealing in her sole and separate property | SWN Production Company, LLC | 17.00% | 284A/338 | |
| | | Steven Michael Gorby, married dealing in his sole | SWN Production Company, LLC | 17.00% | 263A/310 | |
| | | and separate property Thomas C. Wise, married dealing in his sole and | SWN Production Company, LLC | 17.00% | Pending | |
| | | separate property | | 10.00% | 2624/042 | |
| | | Timothy Allan Draheim, single Timothy Allan Connelly and Lori A.W. Connelly, his | SWN Production Company, LLC SWN Production Company, LLC | 18.00% | 263A/842 264A/529 | |
| | | wife | | 27.0070 | 2070, 323 | |
| | | Timothy Neil Draheim, single | SWN Production Company, LLC | 17.00% | 263A/295 | |
| | | Tracy Lee Howard and Mary Kathryn Howard, his wife | SWN Production Company, LLC | 17.00% | 261A/99 | |
| | | Stephen Ford Whatley, Sr., married dealing in her | SWN Production Company, LLC | 17.00% | 286A/498 | |
| | | sole and separate property Thomas Leslie Kettle, Sr. widower | SWN Production Company, LLC | 17.00% | 282A/565 | |
| | | Robin Linn Gorby McCaskill aka Robin Lynn Gorby | SWN Production Company, LLC SWN Production Company, LLC | 17.00% | 282A/565 283A/429 | RECEN Office of Oil |
| | | McCaskill and John R. McCaskill, Jr., her husband | | | | Office of Oils |
| | | Robin Strasser, single | SWN Production Company, LLC | 17.00% | 282A/543 | 11 11 11 4 |
| | | George Steven Donaghy and Kathy Lynn Donaghy, | SWN Production Company, LLC SWN Production Company, LLC | 16.00% | 282A/545 283A/851 | JUL 14 |
| | | his wife | | | | MB/ Pioport |
| | | Kathleen M. Ciorra, married dealing in her sole and separate property | SWN Production Company, LLC | 17.00% | 284A/419 | WV Depart Environmental |
| | | Betty Jean Stanley Connelly, widow | SWN Production Company, LLC | 17.00% | 284A/431 | |
| | | Joanne Lynn Schricker, married dealing in her sole | SWN Production Company, LLC | 17.00% | 284A/413 | |
| | | and separate property Laura Jean Mason, marrled dealing in her sole and | SWN Production Company, LLC | 17.00% | 284A/425 | |
| | | separate property | | | | |
| | | Evelyn Denise Hall, single | SWN Production Company, LLC | 17.00% | 282A/510 | |
| | | Anita Carol Childrers, widow | SWN Production Company, LLC | 17.00% | 282A/515 | |
| | | Caye Estes Everett Varena A. Hollingshead, single | SWN Production Company, LLC SWN Production Company, LLC | 17.00% | 282A/486 267A/472 | |
| | | Vernon Sterling Johnson, single | SWN Production Company, LLC | 17.00% | 267A/472 269A/588 | |
| | | William Leonard Draheim, married dealing in his | SWN Production Company, LLC | 18.00% | Pending | 08/26/20 |
| | | sole and separate property | | | _ | 00/20/2 |
| | | William Lester Draheim, married dealing in his sole | SWN Production Company, LLC | 18.00% | 264A/518 | |

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ent of Protection

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

| # | тмр | LESSOR | LESSEE | ROYALTY | BK/PG | Interest Not Leased by SWN Production Company, LLC |
|----|---------------------------------------|--|--|---------|--------------------------|---|
| | | Karen Sue Measley, f/k/a Karen Sue Francis Hall and | SWN Production Company, LLC | 16.00% | 200A/1 | |
| | | Ross Edwin Measley, Jr., her husband | | | | |
| | | Lana B. Kuhl | SWN Production Company, LLC | 12.50% | 188A/482 | |
| | | Anna L. Buzzard | Chesapeake Appalachia, LLC | 12.50% | 90A/1 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 157A/540 | |
| | | Mariene Kay Musgrave and Wayne T. Musgrave, | SWN Production Company, LLC | 12.50% | 202A/30 | |
| | | wife and husband Max Hinerman and Loretta Hinerman, his wife | SWN Production Company, LLC | 16.00% | 187A/687 | |
| | | Patricia Wheeler Castelli a/k/a Patricia Ann Hall | SWN Production Company, LLC | 12.50% | 198A/155 | 1 |
| | | Wheeler a/k/a Patricia Ann Hall Smith, married, dealing in sole and separate property | | | | |
| | | Sue Carol Anglin | SWN Production Company, LLC | 16.00% | 199A/943 | 1 |
| | | Thomas G. Hall, a married man dealing in his sole | SWN Production Company, LLC | 16.00% | 199A/938 | 1 |
| | 7.04.4 | and separate peroperty | Character Accelerities 1.1.C | 17.000% | 732/634 | 0.0000% |
| 10 | 7-24-1 pt. 27 | Hayhurst Company, a Florida General Partnership | Chesapeake Appalachia, L.L.C. | 17.000% | 723/624 | 0.0000% |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | 4 1 |
| | | James Edward Doull, a married man dealing in his sole and separate property | Chesapeake Appalachia, L.L.C. | 12.500% | 685/221 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Ernest N. Keller a/k/a Ernest M. Keller and Pearl H. | Chesapeake Appalachia, L.L.C. | 12.50% | 683/390 | 1 |
| | | Keller, his wife Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Robert Lee Keller and Mary Kay Keller, his wife | Chesapeake Appalachia, L.L.C. | 12.50% | 683/349 | 1 |
| | | | | | | |
| | | Chesapeake Appalachia, L.L.C. Carolyn Joyce Daugherty, single | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 12.50% | <u>33/110</u> 684/1 | 1 1 |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 12.50% | 33/110 | |
| | | Neva E. Keller, a widow | Chesapeake Appalachia, L.L.C. | 12.50% | 688/127 | |
| | | Chesapeake Appalachia, L.L.C. Donna J. Savage, a married woman dealing in her | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 12.50% | <u>33/110</u> 684/117 | 1 1 |
| | | sole and separate property | | 11.50% | 004/11/ | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| 11 | 7-24-6 | Hayhurst Company, a Florida General Partnership | Chesapeake Appalachia, L.L.C. | 17.00% | 708/66 | 0.0000% |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| 10 | 7-24-1 pt. 26 | Christopher G. Adams and Frica Adams, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 761/402 | 0.0000% |
| | | | | | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Derrick H. Adams and Suzanne Adams, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 761/395 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Paul Charles Adams, a single man | Chesapeake Appalachia, L.L.C. | 17.00% | 750/169 | 1 1 |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 751/608 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Lee D. Bonar and Bonnie M. Bonar, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 747/270 | |
| | | | , | | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Charles W. Bonar and Charlotte L. Bonar, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 755/109 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | | SWN Production Company, L.L.C. | 16.00% | 951/337 | |
| | | L. Bonar, a widow | Character Angel 11 11 C | | | |
| | | Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. | Chesapeake Appalachia, L.L.C. | 17.00% | 754/616 | |
| | | | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 17.00% | 33/110 751/167 | |
| | | acting as Executor and Saundra J. Bonar, a widow | | 17.00% | ,31/10/ | |
| | | Channella Annella 11 C | | | | |
| | | | SWN Production Company, LLC | | 33/110 | |
| | | William D. Bonar and Gloria A. Bonar, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 746/271 | RECEIVED Cffeet of Dill and Gas |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Arnell Elizabeth Bowser and Glen F. Bowser, her | Chesapeake Appalachia, L.L.C. | 17.00% | 778/28 | JUL 1 4 2022 |
| | | husband Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Cornelia C. Browne, widow | SWN Production Company, LLC SWN Production Company, LLC. | 16.00% | 955/350 | word Denaidment of |
| | | Clyde W. Caseman and Alicia L. Caseman, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 748/401 | WV Department of Environmental Protectio |
| | | | | | | |
| | | | SWN Production Company, LLC | | 33/110 | |
| | | Joseph W. Caseman and Gretchen V. Caseman, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 747/600 | |
| | | | SWN Production Company, LLC | | 33/110 | |
| 1 | | | SWN Production Company, LLC | 16.00% | 955/243 | |
| | | | Chesapeake Appalachia, L.L.C. | 17.00% | 749/622 | |
| | , , , , , , , , , , , , , , , , , , , | Robert Clark Adams and Charlotte A. Adams, his | chesopeane rippalacilla, E.E.C. | | | |
| | | wife | | | | 08/26/2022 |
| | | wife Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | 08/26/2022 |
| | | wife Chesapeake Appalachia, L.L.C. David Edwards, single | | 17.00% | | 08/26/2022 |

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

| # | тмр | LESSOR | LESSEE | ROYALTY | BK/PG | Interest Not Leased by SWN Production Company, LLC | |
|----|---------------|--|--|--|---|---|----------------------------|
| | <u> </u> | The Estate of John William Orr, Sr., by Linda O. | Chesapeake Appalachia, L.L.C. | 17.00% | 768/154 | | |
| | | Morgan, a/k/a Linda Orr Morgan, acting as | | | | | |
| I | | Executrix, Linda o. Morgan, a/k/a Linda Orr Morgan | | | | | |
| | | and Gary D. Morgan, her husband, and John W. Orr, | | | | | |
| I | | Jr., a/k/a John William Orr, Jr. and Susan J. Orr, his wife | | | | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | | |
| 1 | | Susan Diane Clark Neidlinger, divorced | SWN Production Company, L.L.C. | 18.00% | 963/70 | | |
| | | Suzanne Patrick, f/k/a Suzanne Edwards, married | SWN Production Company, L.L.C. | 17.00% | 964/66 | | |
| | | dealing in her sole and separate property | | | | | |
| 1 | | Dorothy Patterson, a single woman | Chesapeake Appalachia, L.L.C. | 17.00% | 777/481 | | |
| I | | | | 17.00% | 33/110 | | |
| I | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 47.00% | | | |
| | | The Mary Kathryn Ray Revocable Trust, dated December 18, 1988, by Mary Kathryn Ray, acting as Trustee | Chesapeake Appalachia, L.L.C. | 17.00% | 750/118 | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | | |
| | | Nancy L. Rodgers, f/k/a Nancy Matthews and | Chesapeake Appalachia, L.L.C. | 17.00% | 748/527 | | |
| | | William I. Rodgers, her husband | | | | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | | |
| 1 | 1 | Cliff Sligar, a married man dealing in his sole and | SWN Production Company, L.L.C. | 17.00% | 956/244 | | |
| ļ | | separate property | SW/N Broduction Composed L.L.C. | 17 004 | 056/249 | | |
| | | David B. Sligar, a married man dealing in his sole and separate property | SWN Production Company, L.L.C. | 17.00% | 956/248 | | |
| | | George Leroy Smith and Evelyn F. Smith, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 748/442 | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | | |
| | | John Bernard Smith and Ethel Rose Smith, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 748/436 | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | | |
| | | Malcolm V. Smith, Jr., a widower | Chesapeake Appalachia, L.L.C. | 17.00% | 777/487 | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 17.00% | 33/110 | | |
| | | Russell Lee Smith and Marybelle Smith, his wife | Chesapeake Appaiachia, L.L.C. | 17.00% | 747/623 | | |
| | | | | | 33/110 | | |
| | | Chesapeake Appalachia, L.L.C. Donna R. Walker, a widow | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 17.00% | 777/475 | | |
| | | | | 17.00% | 33/110 | | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 17.00% | | | |
| | | Dorothy E. Wheeler, a widow | Chesapeake Appalachia, L.L.C. | 17.00% | 750/111 | | |
| | | | SWN Production Company, LLC | | 33/110 | | |
| | | Mary T. Zito, f/k/a Mary T. Nesbitt, f/k/a Mary Bonar Nesbitt, a widow | Chesapeake Appalachia, L.L.C. | 17.00% | 764/201 | | |
| | | | SWN Production Company, LLC | | 33/110 | | |
| 10 | 7-24-1 pt. 24 | Christopher G. Adams and Frica Adams, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 761/402 | 0.0000% | |
| | | | | | | | |
| | 1 | | SWN Production Company, LLC | | 33/110 | | |
| | | Derrick H. Adams and Suzanne Adams, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 761/395 | | |
| | ĺ | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | | |
| | | Paul Charles Adams, a single man | Chesapeake Appalachia, L.L.C. | 17.00% | 750/169 | | |
| | 1 | | SWN Production Company, LLC | | | | |
| | 1 | Chesapeake Appalachia, L.L.C. | | | 33/110 | | |
| | 1 | Chesapeake Appalachia, L.L.C. Bruce D. Bonar and Sandra C. Bonar, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 33/110 751/608 | | |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife | | 17.00% | 751/608 | | |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 751/608 33/110 | | |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife | | 17.00% | 751/608 | | |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife | SWN Production Company, LLC | | 751/608 33/110 | | |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | | 751/608 33/110 747/270 | | |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 17.00% | 751/608 33/110 747/270 33/110 755/109 | | |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 | | |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 17.00% | 751/608 33/110 747/270 33/110 755/109 | | |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LL.C. | 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 | | |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. | 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 | £\r C=Y | /:ED |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LL.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 17.00% 17.00% 16.00% 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 | EECEN C″c~ of Di | /ED and Ga |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. | 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 | | |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 17.00% 17.00% 16.00% 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 | FECEN Created JUL 14 | |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LL.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 17.00% 17.00% 16.00% 17.00% 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 | JUL 1 4 | 2022 |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 17.00% 17.00% 16.00% 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 | JUL 1 4 | 2022 |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 17.00% 17.00% 16.00% 17.00% 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 | | 2022 |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. Arnell Elizabeth Bowser and Glon F. Bowser, her | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 17.00% 17.00% 16.00% 17.00% 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 | JUL 1 4 | 2022 |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. Milliar D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 17.00% 17.00% 16.00% 17.00% 17.00% 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 33/110 778/28 | JUL 1 4 | 2022 |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 17.00% 17.00% 16.00% 17.00% 17.00% 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 33/110 778/28 33/110 | JUL 1 4 | 2022 |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William C. Browser and Glen F. Bowser, her husband Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC | 17.00% 17.00% 16.00% 17.00% 17.00% 17.00% 17.00% 16.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 33/110 778/28 33/110 955/350 | JUL 1 4 | 2022 |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William C. Browser and Glen F. Bowser, her husband Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 17.00% 17.00% 16.00% 17.00% 17.00% 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 33/110 778/28 33/110 | JUL 1 4 | 2022 |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. Arnell Elizabeth Bowser and Glen F. Bowser, her husband Chesapeake Appalachia, L.L.C. Cornelia C. Browne, widow Clyde W. Caseman and Alicia L. Caseman, his wife | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC | 17.00% 17.00% 16.00% 17.00% 17.00% 17.00% 17.00% 16.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 33/110 778/28 33/110 955/350 | JUL 1 4 | 2022 |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. Arnell Elizabeth Bowser and Glen F. Bowser, her husband Chesapeake Appalachia, L.L.C. Cornelia C. Browne, widow Clyde W. Caseman and Alicia L. Caseman, his wife | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 17.00% 17.00% 16.00% 17.00% 17.00% 17.00% 17.00% 16.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 33/110 778/28 33/110 955/350 748/401 | JUL 14 Vie oeparin Environmental | 2022 ment of Protec |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a Single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. Cornelia C. Browne, widow Clyde W. Caseman and Alicia L. Caseman, his wife Chesapeake Appalachia, L.L.C. Joseph W. Caseman and Gretchen V. Caseman, his wife | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. | 17.00% 17.00% 16.00% 17.00% 17.00% 17.00% 17.00% 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 33/110 778/28 33/110 955/350 748/401 33/110 | JUL 1 4 | 2022 ment of Protect |
| | | Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a Single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. Cornelia C. Browne, widow Clyde W. Caseman and Alicia L. Caseman, his wife Chesapeake Appalachia, L.L.C. Joseph W. Caseman and Gretchen V. Caseman, his wife Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC. | 17.00% 17.00% 16.00% 17.00% 17.00% 17.00% 17.00% 17.00% | 751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 778/28 33/110 955/350 748/401 33/110 | JUL 14 Vie oeparin Environmental | 2022 ment of Protect |

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

| # | | | | | | Interest Not Leased by SWN |
|----|---------------|---|--|----------------------------|--|-------------------------------------|
| # | тмр | LESSOR | LESSEE | ROYALTY | BK/PG | Production Company, LLC |
| | 1 | Patricia Austin Meyer, married dealing in her sole | SWN Production Company, L.L.C. | 17.00% | 957/589 | |
| | | and separate property The Estate of John William Orr, Sr., by Linda O. | Chesapeake Appalachia, L.L.C. | 17.00% | 768/154 | |
| | | Morgan, a/k/a Linda Orr Morgan, acting as | | | | |
| | | Executrix, Linda o. Morgan, a/k/a Linda Orr Morgan | | | | |
| | | and Gary D. Morgan, her husband, and John W. Orr, Jr., a/k/a John William Orr, Jr. and Susan J. Orr, his | | | | |
| | 1 | wife | | | 33/110 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC SWN Production Company, L.L.C. | 18.00% | 963/70 | 4 |
| | | Susan Diane Clark Neidlinger, divorced Suzanne Patrick, f/k/a Suzanne Edwards, married | SWN Production Company, L.L.C. SWN Production Company, L.L.C. | 17.00% | 964/66 | 1 |
| | | dealing in her sole and separate property | | | | |
| | | Dorothy Patterson, a single woman | Chesapeake Appalachia, L.L.C. | 17.00% | 777/481 | 1 |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 17.00% | 33/110 | |
| | | The Mary Kathryn Ray Revocable Trust, dated December 18, 1988, by Mary Kathryn Ray, acting as | Chesapeake Appalachia, L.L.C. | 17.00% | 750/118 | |
| | | Trustee Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Nancy L. Rodgers, f/k/a Nancy Matthews and | Chesapeake Appalachia, L.L.C. | 17.00% | 748/527 | 1 |
| | | William I. Rodgers, her husband Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Cliff Sligar, a married man dealing in his sole and | SWN Production Company, LLC | 17.00% | 956/244 | 1 |
| | | separate property | | | | 4 |
| | | David B. Sligar, a married man dealing in his sole and separate property | SWN Production Company, L.L.C. | 17.00% | 956/248 | |
| | | George Leroy Smith and Evelyn F. Smith, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 748/442 |] |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | J |
| | | John Bernard Smith and Ethel Rose Smith, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 748/436 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Malcolm V. Smith, Jr., a widower | Chesapeake Appalachia, L.L.C. | 17.00% | 777/487 | 1 |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | J |
| | | Russell Lee Smith and Marybelle Smith, his wife | Chesapeake Appalachia, L.L.C. | 17.00% | 747/623 |] |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Donna R. Walker, a widow | Chesapeake Appalachia, L.L.C. | 17.00% | 777/475 | 1 |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | J I |
| | | Dorothy E. Wheeler, a widow | Chesapeake Appalachia, L.L.C. | 17.00% | 750/111 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | 4 |
| | | Mary T. Zito, f/k/a Mary T. Nesbitt, f/k/a Mary Bonar Nesbitt, a widow | Chesapeake Appalachia, L.L.C. | 17.00% | 764/201 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | 7-24-1 pt. 22 | Christopher Claude Baughman, a/k/a Christopher C. | TH Exploration, LLC | 18.00% | 879/320 | 0.0000% |
| | 1 | Baughman, a married man dealing in his sole and | | | | |
| | | separate property | SWN Production Company, LLC and Statoil USA | | 41/299 | |
| | | separate property TH Exploration, LLC | SWN Production Company, LLC and Statoil USA Onshore Properties Inc. | | 41/299 | |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. | | 18.00% | 41/299 876/183 | |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property | Onshore Properties Inc. TH Exploration, LLC | 18.00% | 876/183 | |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA | 18.00% | | |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property | Onshore Properties Inc. TH Exploration, LLC | 18.00% | 876/183 | |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA | | 876/183 41/299 | |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. | 18.00% | 876/183 41/299 878/292 41/299 | |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA | | 876/183 41/299 878/292 | |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. | 18.00% | 876/183 41/299 878/292 41/299 | |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA SWN Production Company, LLC and Statoil USA | 18.00% | 876/183 41/299 878/292 41/299 | RECE |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. | 18.00% | 876/183 41/299 878/292 41/299 874/321 41/299 | Fiece Office of O |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA SWN Production Company, LLC and Statoil USA | 18.00% | 876/183 41/299 878/292 41/299 874/321 | |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. | 18.00% | 876/183 41/299 878/292 41/299 874/321 41/299 | RECE Office of O JUL 14 |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings, Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin, Revocable Trust TH Exploration, LLC | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC | 18.00% | 876/183 41/299 878/292 41/299 874/321 41/299 | JUL 1 4 |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin Revocable Trust TH Exploration, LLC | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. | 18.00% | 876/183 41/299 878/292 41/299 874/321 41/299 873/71 41/299 | JUL 1 4 |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings, Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin, Revocable Trust TH Exploration, LLC Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC | 18.00% | 876/183 41/299 878/292 41/299 874/321 41/299 873/71 | |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings, Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin, Revocable Trust TH Exploration, LLC Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing herein by and through James Rein Sullivan, her | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. | 18.00% | 876/183 41/299 878/292 41/299 874/321 41/299 873/71 41/299 | JUL 1 4 |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings, Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin, Revocable Trust TH Exploration, LLC Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. | 18.00% | 876/183 41/299 878/292 41/299 874/321 41/299 873/71 41/299 | JUL 1 4 |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reld Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin, Revocable Trust TH Exploration, LLC Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing herein by and through James Rein Sullivan, her Agent and Attorney-in-Fact by Durable Power of | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. | 18.00% | 876/183 41/299 878/292 41/299 874/321 41/299 873/71 41/299 | JUL 1 4 |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin, a/k/a Sarah Cummings TH Exploration, LLC Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing herein by and through James Rein Sullivan, her Agent and Attorney-in-Fact by Durable Power of Attorney dated April 27th 1998, and unrecorded in Marshall County, West Virginia | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC TH Exploration, LLC | 18.00% | 876/183 41/299 878/292 41/299 874/321 41/299 873/71 41/299 876/43 | JUL 1 4 |
| | | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings, Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin, Revocable Trust TH Exploration, LLC Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing herein by and through James Rein Sullivan, her Agent and Attorney-in-Fact by Durable Power of Attorney dated April 27th 1998, and unrecorded in Marshall County, West Virginia TH Exploration, LLC | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC | 18.00% | 876/183 41/299 878/292 41/299 874/321 41/299 873/71 41/299 | JUL 1 4 |
| 10 | 7-24-1 pt. 16 | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings, Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin, Revocable Trust TH Exploration, LLC Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing herein by and through James Rein Sullivan, her Agent and Attorney-in-Fact by Durable Power of Attorney dated April 27th 1998, and unrecorded in Marshall County, West Virginia TH Exploration, LLC Harold Koontz and Margaret G. Koontz, husband | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC TH Exploration, LLC | 18.00% | 876/183 41/299 878/292 41/299 874/321 41/299 873/71 41/299 876/43 | JUL 1 4 |
| 10 | 7-24-1 pt. 16 | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin Revocable Trust TH Exploration, LLC Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing herein by and through James Rein Sullivan, her Agent and Attorney-in-Fact by Durable Power of Attorney dated April 27th 1998, and unrecorded in Marshall County, West Virginia TH Exploration, LLC Harold Koontz and Margaret G. Koontz, husband and wife | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. The Manufacturers Light and Heat Company | 18.00% 18.00% 18.00% | 876/183 41/299 878/292 41/299 874/321 41/299 873/71 41/299 876/43 41/299 360/239 | JUL 1 4 WV Depar Environmenta |
| D | 7-24-1 pt. 16 | separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin Revocable Trust TH Exploration, LLC Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing herein by and through James Rein Sullivan, her Agent and Attorney-in-Fact by Durable Power of Attorney dated April 27th 1998, and unrecorded in Marshall County, West Virginia TH Exploration, LLC Harold Koontz and Margaret G. Koontz, husband and wife | Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC | 18.00% 18.00% 18.00% | 876/183 41/299 878/292 41/299 874/321 41/299 873/71 41/299 876/43 | JUL 14 WV Depar Environmenta |

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

| # | TMP | LESSOR | LESSEE | ROYALTY | BK/PG | Interest Not Leased by SWN Production Company, LLC |
|----|---------------|---|---|----------|--------------------|---|
| 10 | 7-24-1 pt. 13 | Richard E. Walker and Roberta Walker; Mary Hoge Lea and Warren J. Lea; Richard E. Walker, as Executor of the Estate of Edward C. Walker; for the Heirs at Law of Isaac Hoge | The Manufacturers Light and Heat Company | 12,50% | 363/195 | 0.0000% |
| | | The Manufacturers Light and Heat Company | Columbia Gas Transmission Corporation | | 422/204 | |
| | | Columbia Gas Transmission Corporation | Columbia Natural Resources, LLC | | 642/281 | |
| | | Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. | Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | | 662/322 33/110 | |
| 14 | 7-26-9 | I. D. Franklin and Bessie J. Franklin, his wife | The Manufacturers Light and Heat Company | 12.50% | 209/168 | 0.0000% |
| | | Union Gas & Oil Corporation The Preston Oil Company | The Preston Oil Company The Manufacturers Light and Heat Company | | 2/136 2/225 | |
| | | The Manufacturers Light and Heat Company | Columbia Gas Transmission Corporation | | 422/204 | |
| | | Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation | Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. | | 642/281 662/322 | |
| | | Chesapeake Appalachia, L.L.C. Cheapeake Appalachia, L.L.C. | SWN Production Company, LLC SWN Production Company, LLC | | 33/110 36/422 | A |
| 15 | 7-26-8 | Royalty Owners | N/A | N/A | N/A | 0.1302% |
| | | Evelyn Bane, a married woman dealing in her sole and separate property | Chesapeake Appalachia, L.L.C. | 12.50% | 730/218 | |
| | | Chesapeake Appalachia, L.L.C. Guy Buzzard, a single man | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 12,50% | 33/110 683/83 | - |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 12,30% | 33/110 | |
| | | Chestnut Holdings, Inc., a Florida Corporation | Chesapeake Appalachia, L.L.C. | 17.00% | 766/605 | |
| | | Chesapeake Appalachia, L.L.C. Amber D. Colvin, a single woman | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 12,50% | 33/110 740/85 | |
| | | Chesapeake Appalachia, L.L.C. Sharon Hodorowski, f/k/a Sharon Facello and Frank | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 12.50% | 33/110 732/385 | |
| | | Hodorowski, her husband Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Hundred Resources, Inc. | Chesapeake Appalachia, L.L.C. | 17.00% | 769/581 | 1 |
| | | Chesapeake Appalachia, L.L.C. Jeanette Lilley, a widow | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 12.50% | 33/110 730/213 | 4 |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 12.50% | 33/110 | |
| | | Joan Marling, a/k/a Jo Ann Marling, a widow | Chesapeake Appalachía, L.L.C. | 12.50% | 730/208 |] [|
| | | Chesapeake Appalachia, L.L.C. William E. Phillips and nancy G. Phillips, his wife | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 12.50% | 33/110 733/610 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 12.50% | 33/110 | |
| | | and separate property | Chesapeake Appalachia, L.L.C. | 12,50% | 740/6 | T.EIVED, C. |
| | | Chesapeake Appalachia, L.L.C. Shirley Redd and James Redd, her husband | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 12,50% | 33/110 730/198 | JUL 1 4 2022 |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | NIL 1 4 2022 |
| | | Clifford Rulong, a single man | Chesapeake Appalachia, L.L.C. | 12.50% | 953/423 | |
| | | Chesapeake Appalachia, L.L.C. Roger G. Rulong, Sr., a/k/a Roger G. Rong and Jane | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 14.00% | 33/110 694/477 | ent of Last constal Protect |
| | | Kunkle Rulong, a/k/a Jane K. Rulong, his wife | CNNN Deadlorling Common 11/C | 1 1 2 13 | 22/110 | - 040 |
| | | Chesapeake Appalachia, L.L.C. Roger G. Rulong, Jr., a married man dealin gin his | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 14.00% | 33/110 694/475 | 1 |
| | | sole and separate property Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | 1.1 | 33/110 | |
| | | Nancy Wallace Shuman, a/k/a Nancy W. Shuman, a married woman dealing in her sole and separate property | Chesapeake Appalachia, L.L.C. | 12.50% | 693/606 | |
| | | Chesapeake Appalachia, L.L.C. Edward Strausser, a married man dealin gin his sole | SWN Production Company, LLC Chesapeake Appalachia, L.L.C. | 12,50% | 33/110 694/341 | |
| | | and separate property Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| | | Loran William Wallace, a married man dealin gin his sole and separate property | Chesapeake Appalachia, L.L.C. | 12.50% | 692/345 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |
| 10 | 7-24-1 pt. 6 | James B. Whitlatch and Edna Whitlatch, his wife (Edna Whitlatch and James B. Whitlatch, her husband) | The Manufacturers Light and Heat Company | 12.50% | 381/193 | 0.0000% |
| | | The Manufacturers Light and Heat Company | Columbia Gas Transmission Corporation | | 422/204 | |
| | | Columbia Gas Transmission Corporation | Columbia Natural Resources, LLC | | 642/281 | |
| | | Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. | Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | | 662/322 33/110 | |
| 10 | 7-24-1 pt. 8 | Edward C. Walker, widower; Richard E. Walker and Roberta Walker, his wife; Edna Whitlatch and J. B. Whitlatch, her husband; and Security Trust Company, a corporation, for and on behalf and as Attorney in Fact for those heirs at law of Isaac Hoge, herinafter named, under the signature of said | The Manufacturers Light and Heat Company | 12,50% | 326/505 | 0.0000% |
| | | Attorney in Fact | | | | |
| | | The Manufacturers Light and Heat Company | Columbia Gas Transmission Corporation | | 422/204 | |

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

4710303521

| # | ТМР | LESSOR | LESSEE | ROYALTY | BK/PG | Interest Not Leased by SWN Production Company, LLC |
|----|---------|---|--|---------|------------------|---|
| 16 | 7-20-41 | Onward E. Burge, Sarah L. Burge and Stephen W. Burge, Trustees of the Onward E. Burge Trust dated June 21, 2010 | Chesapeake Appalachia, L.L.C. | 12.50% | 676/438 | 0.0000% |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | 4 |
| | | Nancy B. Divita Chesapeake Appalachia, L.L.C. | Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 12.50% | 677/51 33/110 | |
| 17 | 7-19-28 | James W. Whipkey, single Chesapeake Appalachia, L.L.C. | Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 12.50% | 655/5 35/32 | 0.0000% |
| | | O. E. Burge, a married man dealing in his sole and separate property | Chesapeake Appalachia, L.L.C. | 12.50% | 654/382 | |
| | | Chesapeake Appalachia, L.L.C. | SWN Production Company, LLC | | 33/110 | |

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JUL 1 4 2022

WV Department of Environmental Protection



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

June 15, 2022

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

RE: SWN's proposed New Well: Vernon Johnson WTZ 601H in Wetzel County, West Virginia, Drilling under CO 74, CO 74/2, Amos Hollow Road, Rice Ridge Road, and Burley Lane.

Dear Mr Brewer:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under CO 74, CO 74/2, Amos Hollow Road, Rice Ridge Road, and Burley Lane. 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,

2/1

Bradley Wilson Senior Landman SWN Production Company, LLC

RECEIVED Office of Oil and Gas

JUL 1 4 2022

WV Department of Environmental Protection

The Right People doing the Right Things, wisely investing the cash flow from our underlying Asse 8/216/210-22 WW-6AC (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification:

API No. 47- 009 -Operator's Well No. Vernon Johnson WTZ 601H Well Pad Name: Vernon Johnson WTZ

Notice has been given:

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

| State: | West Virginia | LITAINIAD 82 Eas | sting: | 538925.611 | |
|-------------|-------------------------------|---------------------|----------|-----------------|--|
| County: | 103-Wetzel | UTM NAD 83 No | orthing: | 4396552,596 | |
| District: | Clay | Public Road Access: | | Rice Ridge Road | |
| Quadrangle: | Littleton | Generally used farm | name: | Vernon Johnson | |
| Watershed: | West Virginia Fork Fish Creek | | | | |
| | | | | | |

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

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

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.

08/26/2022

4710303521

Certification of Notice is hereby given:

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

| Well Operator: | SWN Production Co., LLC | Address: | 1300 Fort Pierpont Dr., Suite 201 |
|----------------|---|------------|-----------------------------------|
| By: | Brittany Woody | 1 | Morgantown, WV 26508 |
| Its: | Senior Regulatory Analyst A | Facsimile: | |
| Telephone: | 304-884-1610 | Email: | Brittany_Woody@swn.com |
| 475 | REID CROFT Notary Public Official Seal | al Cur | xpires 8/21/2024 |

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 <u>depprivacyofficer@wv.gov</u>.

Diffee of Oil and Gas

JUL 1 4 2022

UN Laparime 4 of Environmental Protection WW-6A (9-13)

PINO. 47-000 10303521

OPERATOR WELL NO. Vernos Johnson WIZ 601H Well Pad Name: Vernos Johnson WIZ

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

| Date of Notice: | Date Permit Application Filed: | 2 |
|-----------------|--------------------------------|---|
| Notice of: | | |

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

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

 PERSONAL
 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 erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article: (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

| ☑ SURFACE OWNER(s) | COAL OWNER OR LESSEE | |
|--|--|--|
| Name: Vernon Johnson | Name: Reserve Coal Properties Co. Attn: Casey Saunders | |
| Address: 11895 Amy Drive | Address: 275 Technology Drive | |
| La Plata, MD 20646 | Canonsburg, PA 15317 | |
| Name: | COAL OPERATOR | |
| Address: | Name: | Office of ON and Gas |
| | Address: | Office of the statistics |
| SURFACE OWNER(s) (Road and/or Other Disturbance) | | - JUL 1 4 2022 |
| Name: | SURFACE OWNER OF WATER WELL | JUL 1 & LULL |
| Address: | AND/OR WATER PURVEYOR(s) | WV Consume tor |
| | Name: See Attachment 13A | V Leparate Loi Environmental Protection |
| Name: | Address: | |
| Address: | | |
| | OPERATOR OF ANY NATURAL GAS STO | RAGE FIELD |
| □ SURFACE OWNER(s) (Impoundments or Pits) | Name: TC Energy Attn: Garrett Word | |
| Name: | Address: Houston Office Bank of America 700 Louisiana St | |
| Address: | Houston, TX 77002 | |
| | *Please attach additional forms if necessary | |

WW-6A (8-13) 4710303521 API NO. 47-009 OPERATOR WELL NO. Verman Joneson WTZ 601H

Well Pad Name: Vernon Johnson WTZ

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

JUL 1 4 2022

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing of water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six action 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) API NO: 47-009 0 3 0 3 5 2 1

OPERATOR WELL NO. Vernon Johnson WTZ 601H Well Pad Name: Vernon Johnson WTZ

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450 NECEIVED Office of Oil and Cas JUL 1 4 2022

(304) 926-0450 Such persons may request, at the time of submitting written comments, notice of the permit decision and Elist of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WW-6A (8-13) 4710303521 PINO. 47-009

OPERATOR WELL NO. Vernan Johnson WTZ 601H Well Pad Name: Vernan Johnson WTZ

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-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

JUL 1 4

Environmental and



| (8-13) | |
|---|-------------|
| | INC |
| Notice is hereby gi | |
| Well (merator own Fig | |
| Well Operator: SWN Pro Telephone: 304-884-161 Email: Brittany_Woody@s | 10 RALLON V |

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

710303521

Notary Public

OPERATOR WELL NO. Vernon Johnson WTZ 601H Well Pad Name: Vernon Johnson WTZ

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.

| REID CROFT | Subscribed and sworn before me this 1st day of June, 2 | :022 |
|---|--|----------|
| Notary Public Official Seal State of West Virginia | Til Cutto N | Jotary I |
| 47 Sparrow Lane Morgantown WV 26508 | My Commission Expires 8/21/2024 | |

RECEIVED Office of Oil and Gas

JUL 1 4 2022

WV Department of Environmental Protection

08/26/2022

Vernon Johnson Pad - Water Purveyors w/in 1500' **Sources**

.

Landowner

Address

• •

Vernon S. Johnson Estate/ C/O Gary W. Draheim

11895 Amy Drive, La Plata MD 26046 1 well

RECEIVED Office of Oil and Gas JUL 1 4 2022

بالا Department of Environmental Protection

08/26/2022

Operator Well No. Vernon Johnson WTZ

| (1/12) | | | | | | | | | | | |
|-------------------------------------|--|-----------|------|----|----|-----|------|------|-----|-------|--------|
| | | 4 | 7 | 1 | 0 | 3 | 0 | 3 | 5 | 2 | 1 |
| | STATE OF WEST VIRGINI | A | | | | | | | | 12 | 12 |
| DEPARTMENT | F OF ENVIRONMENTAL PROTECTION | V, OFFI | CE | 0 | FC | DIL | AP | ND | GA | S | |
| | NOTICE OF ENTRY FOR PLAT SI | | | | | | | | | | |
| Notice Time Requirement: N entry | otice shall be provided at least SEVEN (7) days but no | o more th | an F | OR | TY | -FI | VE (| (45) | day | s pri | ior to |
| Date of Notice: 5/18/2022 | Date of Planned Entry: 5/25/2022 | | | | | | | | | | |
| | | | | | | | | | | | |

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

| PERSONAL |
|----------|
| SERVICE |

WW-6A3

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

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

Notice is hereby provided to:

| SURFACE OWNER(s) | COAL OWNER OR LESSEE |
|--------------------------|--|
| Name: Vernon Johnson | Name: Reserve Coal Properties Co. Attn: Casey Saunders |
| Address: 11895 Amy Drive | Address: 275 Technology Drive Suite 101 |
| La Plata, MD 20646 | Canonsburg, PA 15317-9656 |
| Name: | |
| Address: | MINERAL OWNER(s) |
| | Name: AMP Fund III, LP |
| Name: | Address: 225 Ross Street, Suite 201 |
| Address: | Pittsburgh, PA 15219 |
| | *please attach additional forms if necessary |

Notice is hereby given:

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

| State: | WV | Approx. Latitude & Longitude: | 39.717777, -80.545950 | |
|-------------|-----------|-------------------------------|-------------------------------|---|
| County: | Wetzel | Public Road Access: | Rice Ridge Road | |
| District: | Clay | Watershed: | West Virginia Fork Fish Creek | |
| Quadrangle: | Littleton | Generally used farm name: | Vernon Johnson WTZ | |
| | | | | - |

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

| by given by: | | | 111 1 4 2022 |
|-----------------------------|---|--|--|
| SWN PRODUCTION COMPANY, LLC | Address: | 1300 Fort Pierpont Dr., Suite 201 | JUL |
| 304-884-1610 | | Morgantown, WV 26508 | 11 V Depair Inent of Ion |
| brittany_woody@swn.com | Facsimile: | | Envilantite |
| | SWN PRODUCTION COMPANY, LLC 304-884-1610 | SWN PRODUCTION COMPANY, LLC Address: 304-884-1610 | SWN PRODUCTION COMPANY, LLC Address: 1300 Fort Pierpont Dr., Suite 201 304-884-1610 Morgantown, WV 26508 |

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 deprivacyofficernews upy.

| WW-6A3 | |
|--------|--|
| (1/12) | |

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry Date of Notice: 5/18/2022 Date of Planned Entry: 5/25/2022

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

| PERSONAL | |
|----------|--|
| SERVICE | |

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

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Notice is hereby provided to:

| SURFACE OWNER(s) | COAL OWNER OR LESSEE |
|------------------|--|
| Name: | Name: |
| Address: | Address: |
| Name. | |
| Address: | MINERAL OWNER(s) |
| | Name: Alice M. Aberegg |
| Name: | Address: 560 University Avenue |
| Address: | Elyria, OH 44035 |
| | *please attach additional forms if necessary |

Notice is hereby given:

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

| State: | WV | Approx. Latitude & Longitude: | 39.717777, -80.545950 | _ |
|-------------|-----------|-------------------------------|-------------------------------|---|
| County: | Wetzel | Public Road Access: | Rice Ridge Road | _ |
| District: | Clay | Watershed: | West Virginia Fork Fish Creek | |
| Quadrangle: | Littleton | Generally used farm name: | Vernon Johnson WTZ | |
| | | | | |

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

| Notice is here | by given by: | | | Deres of Oli and Cas |
|----------------|-----------------------------|------------|-----------------------------------|--------------------------|
| Well Operator: | SWN PRODUCTION COMPANY, LLC | Address: | 1300 Fort Pierpont Dr., Suite 201 | JUL 1 4 2022 |
| Telephone: | 304-884-1610 | | Morgantown, WV 26508 | JUL 1 4 LOCA |
| Email: | brittany_woody@swn.com | Facsimile: | | WV Department of |
| | | | | Environmental Pretection |

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| D | | | STATE OF WEST VIRGINIA ONMENTAL PROTECTION, OFFIC | 4710303521 |
|--|--|--|---|-------------------------------------|
| D | EPARIME | NT OF ENVIRO | CE OF ENTRY FOR PLAT SURVEY | CE OF OIL AND GAS |
| Notice Time | Requirement: | Notice shall be prov | vided at least SEVEN (7) days but no more that | n FORTY-FIVE (45) days prior to |
| Date of Noti | ce: 5/18/2022 | Date of Plan | nned Entry: 5/25/2022 | |
| Delivery me | thod pursuant | to West Virginia C | ode § 22-6A-10a | |
| D PERSO | NAL 🔳 | REGISTERED | METHOD OF DELIVERY THAT R | EOUIRES A |
| SERVIC | | MAIL | RECEIPT OR SIGNATURE CONFIR | |
| ind Sedimen | t Control Manua | al and the statutes an hall include contact | ounty tax records. The notice shall include a st nd rules related to oil and gas exploration and p information, including the address for a web p | production may be obtained from the |
| nable the su | reby provided (CE OWNER(s) | | COAL OWNER OR LE | SSEE |
| enable the su Notice is her SURFA Name: Address: | reby provided (CE OWNER(s) | 0: | COAL OWNER OR LE | SSEE |
| enable the su Notice is her SURFA Name: Address: Name: | reby provided (CE OWNER(s) | 0: | COAL OWNER OR LE | SSEE |
| enable the su Notice is her SURFA Name: Address: Address: | reby provided (CE OWNER(s) | 0: | COAL OWNER OR LE Name: Address: MINERAL OWNER(s) Name: Ellen Aberegg | SSEE |
| enable the su Notice is her SURFAG Name: Address: Name: Address: Name: Name: Name: | reby provided (CE OWNER(s) | 0: | COAL OWNER OR LE Name: Address: MINERAL OWNER(s) Name: Ellen Aberegg Address: PO Box 33 | SSEE |
| enable the su Notice is her SURFAG Name: Address: Name: Address: Name: Name: | reby provided (CE OWNER(s) | 0: | COAL OWNER OR LE Name: Address: MINERAL OWNER(s) Name: Ellen Aberegg Address: PO Box 33 | ESSEE |
| enable the su Notice is her SURFA(Name: | reby provided t CE OWNER(s) reby given: Vest Virginia Co on the tract of la | o: ode § 22-6A-10(a), n | COAL OWNER OR LE Name: Address: MINERAL OWNER(s) Name: Ellen Aberegg Address: PO Box 33 Cameron, WV 26033 *please attach additional forms if no | ESSEE |
| Notice is her SURFAG SURFAG Vame: Va | reby provided t CE OWNER(s) CE OWNER(s) Streby given: Vest Virginia Co on the tract of la WV | o: ode § 22-6A-10(a), n | COAL OWNER OR LE Name: Address: MINERAL OWNER(s) Name: Ellen Aberegg Address: PO Box 33 Cameron, WV 26033 *please attach additional forms if ne notice is hereby given that the undersigned wel Approx. Latitude & Longitude: | ESSEE |
| enable the su Notice is her SURFA(Name: | reby provided t CE OWNER(s) reby given: Vest Virginia Co on the tract of la | o: ode § 22-6A-10(a), n | COAL OWNER OR LE Name: Address: MINERAL OWNER(s) Name: Ellen Aberegg Address: PO Box 33 Cameron, WV 26033 *please attach additional forms if no | ESSEE |

| by given by: | | | 0000 |
|-----------------------------|---|---|--|
| SWN PRODUCTION COMPANY, LLC | Address: | 1300 Fort Pierpont Dr., Suite 201 | JUL 1 4 LULL |
| 304-884-1610 | | Morgantown, WV 26508 | the and then tof |
| brittany_woody@swn.com | Facsimile: | | Environmental Protection |
| | SWN PRODUCTION COMPANY, LLC 304-884-1610 | SWN PRODUCTION COMPANY, LLC Address: 304-884-1610 | SWN PRODUCTION COMPANY, LLC Address: 1300 Fort Pierpont Dr., Suite 201 304-884-1610 Morgantown, WV 26508 |

Oil and Gas Privacy Notice:

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

| WW-6A3 | |
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4710303521

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry
Date of Notice: 5/18/2022 Date of Planned Entry: 5/25/2022

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

| PERSONAL | |
|----------|--|
| SERVICE | |

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

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Notice is hereby provided to:

| SURFACE OWNER(s) | COAL OWNER OR LESSEE |
|------------------|--|
| Name: | Name: |
| Address: | Address: |
| Name | |
| Address: | MINERAL OWNER(s) |
| | Name: James Joseph Aberegg |
| Name: | Address: 905 Oberline Elyria Road Apt. W-up |
| Address: | Elyria, OH 44035 |
| | *please attach additional forms if necessary |

Notice is hereby given:

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

| State: | WV | Approx. Latitude & Longitude: | 39.717777, -80.545950 |
|-------------|-----------|---|-------------------------------|
| County: | Wetzel | Public Road Access: | Rice Ridge Road |
| District: | Clay | Watershed: | West Virginia Fork Fish Creek |
| Quadrangle: | Littleton | Generally used farm name: | Vernon Johnson WTZ |
| | | and the second se | |

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| by given by: | | | 1 1 1 2022 | |
|-----------------------------|-----------------|--|--|--|
| SWN PRODUCTION COMPANY, LLC | Address: 1300 F | 1300 Fort Pierpont Dr., Suite 201 | JUL 1 4 ZUZZ | |
| 304-884-1610 | Morgan | ntown, WV 26508 | Mr Department of Environmental Protection | |
| brittany_woody@swn.com | Facsimile: | | Environmentarrio | |
| | 304-884-1610 | SWN PRODUCTION COMPANY, LLC Address: 1300 F 304-884-1610 Morgan | SWN PRODUCTION COMPANY, LLC Address: 1300 Fort Pierpont Dr., Suite 201 304-884-1610 Morgantown, WV 26508 | |

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Operator Well No. Vernon Johnson WTZ

| WW-6A. | 3 |
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| (1/12) | |

STATE OF WEST VIRGINIA 4710.3.03521 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

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

Date of Notice: 5/18/2022 Date of Planned Entry: 5/25/2022

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

| PERSONAL |
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| SERVICE |

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Notice is hereby provided to:

| SURFACE OWNER(s) | COAL OWNER OR LESSEE |
|------------------|--|
| Name: | Name: |
| Address: | Address: |
| Name: | |
| Address: | MINERAL OWNER(s) |
| | Name: Brian Franklin Butler |
| Name: | Address: 108 Quarter Drive |
| Address: | Bunkerhill, WV 25413 |
| | *please attach additional forms if necessary |

Notice is hereby given:

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

| State: | WV | Approx. Latitude & Longitude: | 39.717777, -80.545950 |
|-------------|-----------|-------------------------------|---|
| County: | Wetzel | Public Road Access: | Rice Ridge Road |
| District: | Clay | Watershed: | West Virginia Fork Fish Creek |
| Quadrangle: | Littleton | Generally used farm name: | Vernon Johnson WTZ |
| | No. | - | a second s |

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| Notice is here Well Operator: | | Address: | 1300 Fort Plerpont Dr., Suite 201 | A 2022 |
|----------------------------------|------------------------|------------|-----------------------------------|-------------|
| Telephone: | 304-884-1610 | | Morgantown, WV 26508 | JULIG |
| Email: | brittany_woody@swn.com | Facsimile: | | Deparation |
| | | | | Environment |

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Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry
Date of Notice: 5/18/2022 Date of Planned Entry: 5/25/2022

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

| PERSONAL | |
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| SERVICE | |

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Notice is hereby provided to:

| SURFACE OWNER(s) | COAL OWNER OR LESSEE |
|------------------|--|
| Name: | Name: |
| Address: | Address |
| Name: | |
| Address: | MINERAL OWNER(s) |
| | Name: Keith Aberegg |
| Name: | Address: 191 Solitude Lane |
| Address: | Boyce, VA 22620 |
| | *please attach additional forms if necessary |

Notice is hereby given:

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

| WV | Approx. Latitude & Longitude: | 39.717777, -80.545950 |
|-----------|-------------------------------|--|
| Wetzel | Public Road Access: | Rice Ridge Road |
| Clay | Watershed: | West Virginia Fork Fish Creek |
| Littleton | Generally used farm name: | Vernon Johnson WTZ |
| | Wetzel Clay | Wetzel Public Road Access: Clay Watershed: |

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| Notice is here | by given by: | | | 5 |
|----------------|-----------------------------|------------|-----------------------------------|-------------------------|
| Well Operator: | SWN PRODUCTION COMPANY, LLC | Address: | 1300 Fort Pierpont Dr., Suite 201 | 111 1 4 2022 |
| Telephone: | 304-884-1610 | | Morgantown, WV 26508 | 10L - |
| Email: | brittany_woody@swn.com | Facsimile: | | WW Departure Protection |
| | | | | Environment |

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08/26/2022

| WW-6A3 | |
|--------|--|
| (1/12) | |

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

Date of Notice: 5/18/2022 Date of Planned Entry: 5/25/2022

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

| PERSONAL | |
|----------|--|
| SERVICE | |

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Notice is hereby provided to:

| SURFACE OWNER(s) | COAL OWNER OR LESSEE |
|------------------|--|
| Name: | Name: |
| Address: | Address: |
| Name: | |
| Address: | MINERAL OWNER(s) |
| | Name: Red Stone Resources, LLC |
| Name: | Address: 817 Irish Lane |
| Address: | Edmond, OK 73003 |
| | *please attach additional forms if necessary |

Notice is hereby given:

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| | Approx. Latitude & Longitude: | 39.717777, -80.545950 |
|---|-------------------------------|-----------------------------------|
| | Public Road Access: | Rice Ridge Road |
| | Watershed: | West Virginia Fork Fish Creek |
| 1 | Generally used farm name: | Vernon Johnson WTZ |
| | | Public Road Access: Watershed: |

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| Notice is here | by given by: | | | |
|---------------------|-----------------------------|------------|-----------------------------------|--------------------------|
| Well Operator: | SWN PRODUCTION COMPANY, LLC | Address: | 1300 Fort Plerpont Dr., Suite 201 | 200 + # 2022 |
| Telephone: | 304-884-1610 | | Morgantown, WV 26508 | JUL I 4 2020 |
| Email: | brittany_woody@swn.com | Facsimile: | | W Department of |
| Same and the second | | | | Environmental Protection |

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Date of Notice: 5/18/2022 Date of Planned Entry: 5/25/2022

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

| PERSONAL |
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| SERVICE |

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Notice is hereby provided to:

| SURFACE OWNER(s) | COAL OWNER OR LESSEE |
|------------------|--|
| Name: | Name: |
| Address: | Address: |
| Name: | |
| Address: | MINERAL OWNER(s) |
| | Name: James Stoneking |
| Name: | Address: 2600 Dewitt Drive |
| Address: | Fredericksburg, VA 22408 |
| | *please attach additional forms if necessary |

Notice is hereby given:

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| WV | Approx. Latitude & Longitude: | 39.717777, -80.545950 | |
|-----------|-------------------------------|--|--|
| Wetzel | Public Road Access: | Rice Ridge Road | |
| Play | Watershed: | Wee Vinjinia Fork Fish Creek | |
| Littleton | Generally used farm name: | Vernon Johnson WTZ | |
| | Wetzel May | Wetzel Public Road Access: Chay Watershed: | Wetzel Public Road Access: Rice Ridge Road Clay Watershed: West Virginia Fork Fish Creek |

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| Notice is here | by given by: | | | DEL-DEPERSON GES |
|----------------|-----------------------------|------------|-----------------------------------|--------------------------|
| Well Operator: | SWN PRODUCTION COMPANY, LLC | Address: | 1300 Fort Pierpont Dr., Suite 201 | 1 A 2022 |
| Telephone: | 304-884-1610 | | Morgantown, WV 26508 | JUL 1 4 LOD |
| Email: | brittany_woody@swn.com | Facsimile: | | un pepariment of |
| | | | | Environmental Protection |

Oil and Gas Privacy Notice:

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

STATE OF WEST VIRGINIA 471030 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND C NOTICE OF INTENT TO DRILL

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 06/01/2022 Date Permit Application Filed:

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

| HAND | CERTIFIED MAIL |
|----------|--------------------------|
| DELIVERY | RETURN RECEIPT REQUESTED |

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

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

| Name: Vemon S, Johnson Estate | Name: | 1 A 2022 |
|-------------------------------|----------|--------------------------|
| Address: 11895 Amy Dr. | Address: | JUL I = Lo |
| La Plata, MD 20646 | | . Tranguisneut of |
| Second Second and Second | | Enviranmental Protection |

Notice is hereby given:

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

| State: | West Virginia | LITM NAD 92 | Easting: | 538,925.611 | |
|-------------|--|------------------|------------|--------------------|--|
| County: | Wetzel | UTM NAD 83 | Northing: | 4,396,552.596 | |
| District: | Clay | Public Road Ace | cess: | Rice Ridge | |
| Quadrangle: | Littleton, WV | Generally used t | farm name: | Vernon Johnson WTZ | |
| Watershed: | West Virginia Fork Fish Creek (HUC-10) | | | | |

This Notice Shall Include:

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

Notice is hereby given by:

| SWN Production Company, LLC | Authorized Representative: | Justin Booth | |
|-------------------------------------|---|--|--|
| 1300 Fort Pierpont Drive, Suite 201 | Address: | 1300 Fort Pierpont Drive, Suite 201 | |
| Morgantown, WV 26508 | | Morgantown, WV 26508 | |
| 304-884-1675 | Telephone: | 304-884-1675 | |
| Justin_Booth@swn.com | Email: | Justin_Booth@swn.com | |
| | Facsimile: | | |
| | 1300 Fort Pierpont Drive, Suite 201 Morgantown, WV 26508 304-884-1675 | 1300 Fort Pierpont Drive, Suite 201 Address: Morgantown, WV 26508 Telephone: 304-884-1675 Telephone: Justin_Booth@swn.com Email: | |

Oil and Gas Privacy Notice:

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



STATE OF WEST VIRGINIA 4710303521 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 06/01/2022 Date Permit Application Filed:

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

| CERTIFIED MAIL | HAND |
|--------------------------|----------|
| RETURN RECEIPT REQUESTED | DELIVERY |

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

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

| Name: | Vernon S. Johnson Estate | Name: |
|----------|--------------------------|----------|
| Address: | 11895 Amy Dr. | Address: |
| | La Plata, MD 20646 | |

Notice is hereby given:

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

| State: | West Virginia | UTM NAD 83 | Easting: | 538,925.611 | |
|-------------|--|-------------------|-----------|--------------------|--|
| County: | Wetzel | UTMINAD 83 | Northing: | 4,396,552.596 | |
| District: | Clay | Public Road Acc | ess: | Rice Ridge | |
| Quadrangle: | Littleton, WV | Generally used fa | arm name: | Vernon Johnson WTZ | |
| Watershed: | West Virginia Fork Fish Creek (HUC-10) | | | | |

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

| Well Operator: | SWN Production Company, LLC | Address: | 1300 Fort Pierpont Drive, Suite 201 | |
|----------------|-----------------------------|------------|-------------------------------------|--|
| Telephone: | 304-884-1675 | | Morgantown, WV 26508 | |
| Email: | Justin_Booth@swn.com | Facsimile: | | |

Oil and Gas Privacy Notice:

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

JUL 1 4 2022 08/26/2022



4710303521

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION **Division of Highways**

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

D. Alan Reed, P.E. **State Highway Engineer**

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

June 7, 2022

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

Subject: DOH Permit for the Vernon Johnson Pad, Wetzel County Vernon Johnson WTZ 601H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0422 which has been issued to Southwestern Energy for access to the State Road for a well site located off Wetzel County Route 8/9 SLS MP 0.74.

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. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Dary K. Clayton-

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



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

08/26/2022

Attachment VI Frac Additives

| Product Nome | Freduct Use | Demical Name | 107-21.1 |
|--|---|--|----------------------------------|
| AI-303 (U.S. Well Services) | Mixture | Ethylene glycol | 107-21 1 104-55 2 |
| | | Cinnamaldehyde Butyl cellosolve | 104-55 2 |
| | | Formic acid | 64-18 6 |
| | | Polyether | Proprietary |
| | | Acetophenone, thiourea, formaldehyde polymer | 68527-49 1 |
| | A CONTRACTOR OF | Ammonium persulfate | 7727-54-0 |
| P ONE (U.S. Well Services) | Breaker | | |
| Bactron K-139 (Champion Technologies) | Biocide | Glutaraldehyde | 111-30-8 |
| | | Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol | 68424-85-1 64-17-5 |
| Bactron K-219 (Champion Technologies) | Biocide | Methanol | 67-56-1 |
| | | Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides | 68424-85-1 |
| rboNRT | Tracer | Ceramic Proppant | 66402-68-4 |
| 486A (Nalco Champion) | Scale Inhibitor | Amine Triphosphate Ethylene Glycol | Proprietary 107-21-1 |
| EC6734A (Champion Technologies) Econo-Cl200 (SWN Well Services) | Biocide | Hydrogen Peroxide | 7722-84-1 |
| | Diocide | Acetic Acid | 64-19-7 |
| | | Peroxyacetic Acid | 79-21-0 |
| | Corrosion Inhibitor | Methanol | 67-56-1 |
| Econo-cizoo (Swin well Services) | corrosion inhibitor | Oxyalkylated fatty acid | 68951-67-7 |
| | | Oxyalkylated fatty acid Fatty acids | 61790-12-3 |
| | | Fatty acids Modified thiourea polymer | 61790-12-3 |
| | | Water | 7732-18-5 |
| | | Hydrochloric acid | 7647-01-0 |
| | | Potassium acetate | 127-08-2 |
| | | Formaldehyde | 50-00-0 |
| Feenal FEAC (SWALWell Services) | Iron Control | Acetic Acid | 64-19-7 |
| Ecopol-FEAC (SWN Well Services) FDP-S1176-15 (Halliburton) | non control | Citric Acid | 77-92-9 |
| | | Water | 7732-18-5 |
| | Friction Boduces | | Proprietary |
| 2111/0-12 (Hallipurton) | Friction Reducer | Polyacylate Hydrotreated light petroleum distillate | 64742-47-8 |
| | Filmling De door | | |
| FLOJET DR900 LPP (SWN Well Services) | Friction Reducer | Distillates (petroleum) hydrotreated light | 64674-47-8 |
| | | | 5 107-21-1 |
| | | Alcohols, C12-16, Exoxylated propoxylated | 68213-24-1 |
| | | Fatty Alcohols ethoxylated | Proprietary |
| | | | 7732-18-5 |
| DJET DRP 1130X (SWN Well Services) | Friction Reducer | Tipplicary | Proprietary |
| FR-76 (Halliburton) | Friction Reducer | Hydrotreated light petroleum distillate | 64742-47-8 |
| | | | Proprietary |
| TRON T-390 (Champion Technologies) | Scale Inhibitor | Methanol Khoxylate | 67-56-1 Proprietary |
| LAFOR UL-Wheeters | Constantion to bitter | | Proprietary |
| I-150E (Halliburton) | Corrosion Inhibitor | No hazardous substance | N/A |
| HCL (SWN Well Services) | Hydrocholic Acid | Hydrochloric Acid | 7647-01-0 |
| | | Water | 7732-18-5 |
| LP-65 MC (Halliburton) | Scale Inhibitor | Organic phosphonate | Proprietary |
| | | Ammonium Chloride | 12125-02-9 |
| II-FLEX (U.S. Well Services) | Viscosifying Agent | Distillates, petroleum, hydrotreated light | 64742-47-8 |
| xslick 930 | Friction Reducer | Copolymer of 2-propenamide | Proprietary |
| | | Hydrotreated Distillate | 64742-47-8 |
| | | Sodium Chloride | 7647-14-5 |
| | | Alcohols, C12-16, Exoxylated | 68551-12-2 |
| | | Oleic Acid Diethanolamide | 93-83-4 |
| | | Ammonium Chloride | 12125-02-9 |
| exslick 953 | Friction Reducer | Petroleum Distillate | 64742-47-8 |
| | | Sodium Chloride | 7647-14-5 |
| | | Ammonium Chloride | 12125-02-9 |
| | | N,N-bis (2-hydroxyethyl) oleamide | 93-83-4 |
| exslick 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 |
| xaid 655 NM | Scale Inhibitor | Diethylenetriamine penta (methylene phosphonic acid) | 15827-30-8 |
| Plexslick 922 | no data available | Copolymer of 2-propenaminde | 69418-26-4 |
| | Contraction of the second s | Distillates (petroleum), hydotreated light | 64742-47-8 |
| | | Ammonium chloride ((NH4)CI) | 12125-02-9 |
| | | Oleic Acid Diethnolamide | 93-83-4 |
| Tolcide PS50A | Biocidal product | Tetrakis (hydroxymethyl) phosphonium sulphate | 55566-30-8 |
| | | Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate | |
| | Estadian Dadress | groups | 397256-50-7 |
| .D-2950 | Friction Reducer | Hydrotreated light petroleum distillate | 64742-47-8 Based and a second |
| | | Ethoxylated alcohol | Proprietary |
| | | Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched | 69011-36-5 |
| gend LD-7750W | Scale Control | Methanol | 67-56-1 |
| | | Phosphonic Acid Salt | Proprietary |
| | | Priospholic Acid Salt | 7631-99-408 |

