



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

Monday, July 12, 2021
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for SWN A WTZ 601H
47-103-03422-00-00

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: SWN A WTZ 601H
Farm Name: SWN PRODUCTION COMPANY
U.S. WELL NUMBER: 47-103-03422-00-00
Horizontal 6A New Drill
Date Issued: 7/12/2021

Promoting a healthy environment.

07/16/2021

PERMIT CONDITIONS

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

CONDITIONS

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

API Number: _____

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.

07/16/2021

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

1) Well Operator: SWN Production Co., LLC 494512924 103-Wetzel 7-Proctor 681-Wileyville
Operator ID County District Quadrangle

2) Operator's Well Number: SWN A WTZ 601H Well Pad Name: SWN A WTZ Pad

3) Farm Name/Surface Owner: SWN Production Company, LLC Public Road Access: Macedonia Ridge Road

4) Elevation, current ground: 1343' Elevation, proposed post-construction: 1343'

5) Well Type (a) Gas x Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow x Deep _____
Horizontal x

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Up-Dip well to the North, Target Top TVD- 7346', Target Base TVD- 7391', Anticipated Thickness- 45', Associated Pressure- 4804

8) Proposed Total Vertical Depth: 7371'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18,029'

11) Proposed Horizontal Leg Length: 9299.88'

12) Approximate Fresh Water Strata Depths: 307'

13) Method to Determine Fresh Water Depths: Salinity Calculations from SWN A WTZ 3H logs (API 47-103-03232)

14) Approximate Saltwater Depths: 1342' Logs will be run for a salinity profile analysis

15) Approximate Coal Seam Depths: 1246'

16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.

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

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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WW-6B
(04/15)

47-103-03422
 API NO. 47-~~103~~
 OPERATOR WELL NO. SWN A WTZ 601H
 Well Pad Name: SWN A WTZ Pad

18)

CASING AND TUBING PROGRAM

| TYPE | Size (in) | New or Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: For Drilling (ft) | INTERVALS: Left in Well (ft) | CEMENT: Fill-up (Cu. Ft.)/CTS |
|--------------|-----------|-------------|----------|------------------------|----------------------------|------------------------------|-------------------------------------|
| Conductor | 20" | New | J-55 | 94# | 126' / | 126' | CTS |
| Fresh Water | 13 3/8" | New | H-40 | 48# | 380' / | 380' | 380 sx/CTS |
| Coal | See | Interm | Casing | | | | |
| Intermediate | 9 5/8" | New | J/K-55 | 36/40# | 2888' / | 2888' | 1011 sx/CTS |
| Production | 5 1/2" | New | P-110 HP | 20# | 18029' / | 18029' | Tab 3130ax 100' Interm intermediate |
| Tubing | | | | | | | |
| Liners | | | | | | | |

Bryan Harris 5/25/21'

| TYPE | Size (in) | Wellbore Diameter (in) | Wall Thickness (in) | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type | Cement Yield (cu. ft./k) |
|--------------|-----------|------------------------|---------------------|----------------------|--|-------------|--------------------------|
| Conductor | 20" | 30" | 0.25 | 2120 | 81 | Class A | 1.20/30% Excess |
| Fresh Water | 13 3/8" | 17.5" | 0.380 | 2730 | 633 | Class A | 1.20/30% Excess |
| Coal | See | 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

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

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WW-6B
(10/14)

10303422
API NO. 47- ~~888~~ -
OPERATOR WELL NO. SWN A WTZ 601H
Well Pad Name: SWN A WTZ Pad

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 12.77

22) Area to be disturbed for well pad only, less access road (acres): 6.61

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.

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*Note: Attach additional sheets as needed.

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4710303422

CEMENT ADDITIVES

| INTERVAL | SCHLUMBERGER PRODUCT NAME | BJ PRODUCT NAME | NEXTIER PRODUCT NAME | PRODUCT USE | CHEMICAL NAME | CAS-Number |
|-------------------------------------|---------------------------------|-----------------------|----------------------------|-------------------------------------|---|-------------|
| SURFACE (FRESHWATER) up to 3% | XXXXXXXXXX | INTEGRA SEAL | CJ600 | LOST CIRC MATERIAL | CELLOPHANE FLAKES | 9005-81-6 |
| | S001 | A-7P | CJ110 | ACCELERATOR | CALCIUM CHLORIDE | 10043-52-4 |
| COAL PROTECTION up to 3% | XXXXXXXXXX | INTEGRA SEAL | CJ600 | LOST CIRC MATERIAL | CELLOPHANE FLAKES | 9005-81-6 |
| | S001 | A-7P | CJ110 | ACCELERATOR | CALCIUM CHLORIDE | 10043-52-4 |
| INTERMEDIATE | D020 | BENTONITE | CJ020 | EXTENDER | BENTONITE | 1302-78-9 |
| | D047 | FP 28L | XXXXXXXXXX | LIQUID ANTIFOAM AGENT | POLYPROPYLENE GLYCOL | 25322-69-4 |
| | XXXXXXXXXX | INTEGRA SEAL | CJ600 | LOST CIRC MATERIAL | CELLOPHANE FLAKES | 9005-81-6 |
| | CemNet | XXXXXXXXXX | XXXXXXXXXX | LOST CIRC MATERIAL | COATED FIBERGLASS FIBERS | PROPRIETARY |
| | SUGAR | SUGAR | CJ795 | CMT RETARDER | SUCROSE | 57-50-1 |
| | S001 | A-7P | CJ110 | ACCELERATOR | CALCIUM CHLORIDE | 10043-52-4 |
| PRODUCTION | XXXXXXXXXX | XXXXXXXXXX | CJ111 | ACCELERATOR | SODIUM CHLORIDE | 7440-23-5 |
| | XXXXXXXXXX | SS-11W | CJ880 | SURFACTANT | NONIONIC SURFACTANT | 6540-99-4 |
| | D047 | FP 28L | XXXXXXXXXX | LIQUID ANTIFOAM AGENT | POLYPROPYLENE GLYCOL | 25322-69-4 |
| | XXXXXXXXXX | XXXXXXXXXX | CJX157011 | SOLID ANTIFOAM AGENT | FULLERS EARTH(ATTAPULGITE) | 8031-18-3 |
| | XXXXXXXXXX | XXXXXXXXXX | CJ540 | HP FLUID LOSS ADDITIVE | ALIPHATIC AMIDE POLYMER | PROPRIETARY |
| | D255 | XXXXXXXXXX | XXXXXXXXXX | MED TEMP FLUID LOSS ADDITIVE | POLYACRILIC POLYMER | PROPRIETARY |
| | XXXXXXXXXX | XXXXXXXXXX | CJ213 | RETARDER | CHRYSTALLINE SILICA | 14808-60-7 |
| | XXXXXXXXXX | FL-66 | CJ501 | LOW TEMP FLUID LOSS ADD | POWDERED POLYSACCHARIDE | PROPRIETARY |
| | XXXXXXXXXX | BENTONITE | CJ020 | EXTENDER | BENTONITE | 1302-78-9 |
| | D208 | ASA-301 | XXXXXXXXXX | 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 |

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| | | | |
|------------------------------------|-------------------|----------------------------------|-----------------------|
| Southwestern Energy Company | | Proposed Drilling Program | |
| Well: | SWN A WTZ 601 | Re-entry Rig: | TBD |
| Field: | VICTORY FIELD WET | Prospect: | Marcellus Shale |
| County: | WETZEL | State: | WV |
| SHL: | 39.6826 Latitude | -80.6397 Longitude | |
| BHL: | 39.6929 Latitude | -80.6745 Longitude | |
| KB Elev: | 1,369 ft MSL | KB: 26 ft AGL | GL Elev: 1,343 ft MSL |



No COAL VOID Anticipated

Gas Storage Interval : 1,966' - 2,678' (Maxton, Big Injun)

PROD TOC Lead @ 3,088' MD

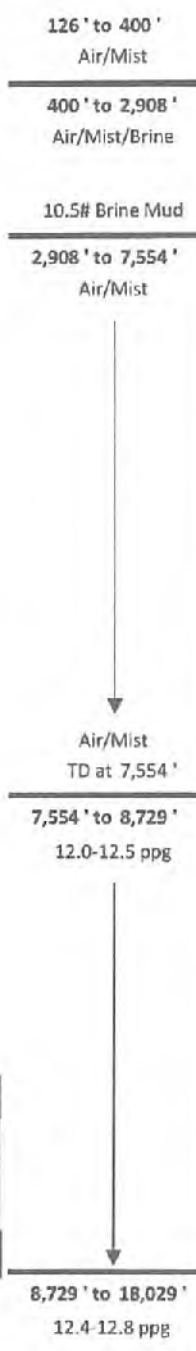
PROD TOC Tail @ 7,454' MD

TUBULAR DETAIL

| Casing String | Casing Size (in) | Weight (Min) | Grade (Min) | Planned Interval | |
|---------------|------------------|--------------|-------------|------------------|----------|
| | | | | From | To |
| Conductor | 20 | 94.0 # | J-55 | 0' | 126' |
| Surface | 13.375 | 48.0 # | H-40 | 0' | 380' |
| Intm/Coal | 9.625 | 36/40# | J/K-55 | 0' | - 2,888' |
| Production | 5.5 | 20.0 # | P-110 HP | 0' | 18,029' |

CEMENT DETAIL

| | Sacks | Class | Density |
|---------------|-------|-------|-----------|
| Conductor: | 151 | A | 19.3 |
| Surface: | 380 | A | 15.6 |
| Intermediate: | 1011 | A | 15.6 |
| Production: | 3130 | A | 14.5-15.6 |



KOP at 7,554' MD

Freshwater Depth - 307' TVD
 Coal Depth - 1,246' TVD
 Saltwater Depth - 1,342' TVD
 TVD - 7,371'
 TMD - 18,029'

7,371' Target Center TVD

TD at 18,029' MD
 7,157' TVD

Onondaga 7,177' TVD

EOB at 8,729' MD

SHL Onondaga 7,391' TVD

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Created by: Matt Weems on 06/01/2021

WW-9
(4/16)

API Number 47 - 103 - 03422
Operator's Well No. SWN A 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) Upper Ohio South Quadrangle Wileyville

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

Additives to be used in drilling medium? Attachment 3B

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

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

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

Apex Sanitary Landfill 06-08438, Brooke Co SWF-1013,

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

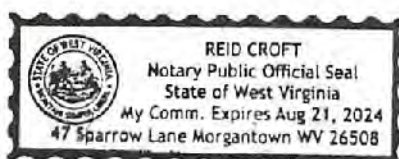
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations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

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

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

Subscribed and sworn before me this 5th day of April, 2021
Reid Croft Notary Public

My commission expires 8/21/2024



07/16/2021

SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 12.77 Prevegetation pH _____

Lime as determined by pH test min.? Tons/acre or to correct to pH 6.61

Fertilizer type 10-20-20

Fertilizer amount 600/500 lbs/acre

Mulch Hay/Straw Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Attachment 3C

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Bryan Harris

Comments: _____

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Title: Oil & Gas Inspector

Date: 5-3-21

Field Reviewed? () Yes () No

Attachment 3A

CLOSED LOOP SYSTEM

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

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

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

AIR DRILLING INTERVALS

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

LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

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

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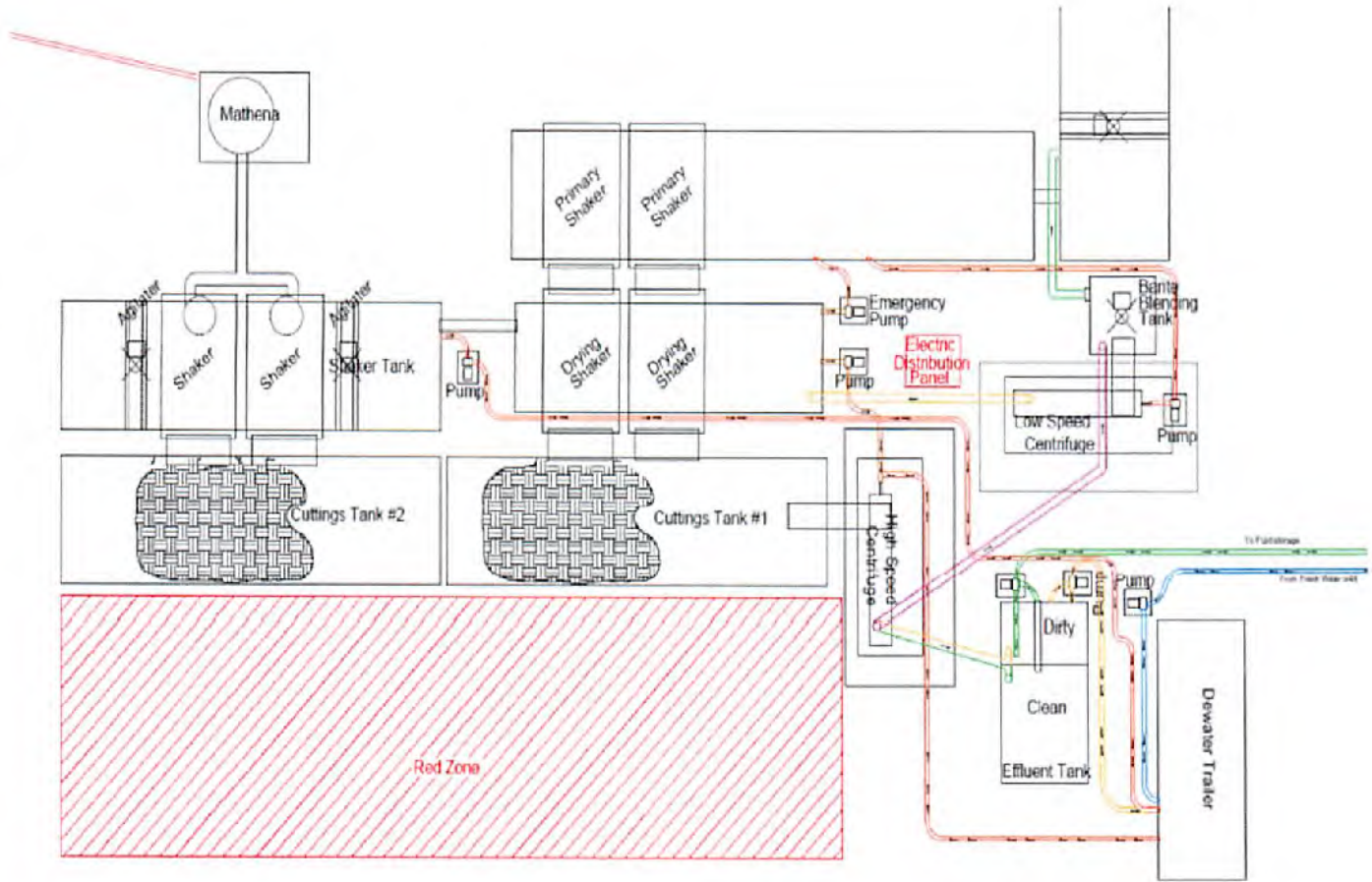
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07/16/2021



Solids Control Layout



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Attachment 3B
Drilling Mediums

Surface/Coal(if present)/Freshwater Intervals:

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present):

Air

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

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WVD Seeding Specification

R₂A → V⁺

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

NON-ORGANIC PROPERTIES

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

All legumes are
innoculated at 5x normal
rate

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

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

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SOIL AMENDMENTS

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

*unless otherwise dictated by soil test results

Seeding Calculation Information:

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

Synopsis:

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

Special Considerations:

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

ORGANIC PROPERTIES

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

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

Organic Fertilizer @ 200lbs per Acre

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

Pelletized Lime @ 2 Tons per Acre

WETLANDS (delineated as jurisdictional wetlands)

Seed Mixture: Wetland Mix

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

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

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

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

4710303422

SWN A WTZ 601H

| API | Operator | Status | Latitude | Longitude | Vertical TD | Producing Formation | Producing Zones Not Perforated |
|-----------|--|---------|-----------|-----------|-------------|---------------------|--------------------------------|
| Unknown | Unknown | | 39.683414 | 80.640257 | | | |
| 103-01485 | Perkins Oil & Gas, Inc | Active | 39.682609 | 80.640643 | | | |
| 103-00404 | The Manufacturers Light & Heat Company | Plugged | 39.684535 | 80.652068 | 1832 | Maxon Sand | Pittsburgh Coal |
| 103-03253 | SWN Production Company | Active | 39.682664 | 80.639579 | 25972 | Marcellus | Tully Lime |
| 103-03251 | SWN Production Company | Active | 39.682639 | 80.639593 | 25776 | Marcellus | Tully Lime |
| 103-03233 | SWN Production Company | Active | 39.682614 | 80.639608 | 2117 | Marcellus | Tully Lime |
| 103-03232 | SWN Production Company | Active | 39.682589 | 80.639622 | 18878 | Marcellus | Tully Lime |

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 Environmental Protection

4710303422

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

Bryan Hamlin
5-3-21

47-103-03422

API NO. 47-XXX-XXXXX
WELL NAME: SWN A WTZ 601H
Wileyville QUAD
PROCTOR DISTRICT
WETZEL COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody

Date: 4/5/2021

Brittany Woody

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: _____

Date: _____

Title: _____

Approved by:

Name: _____

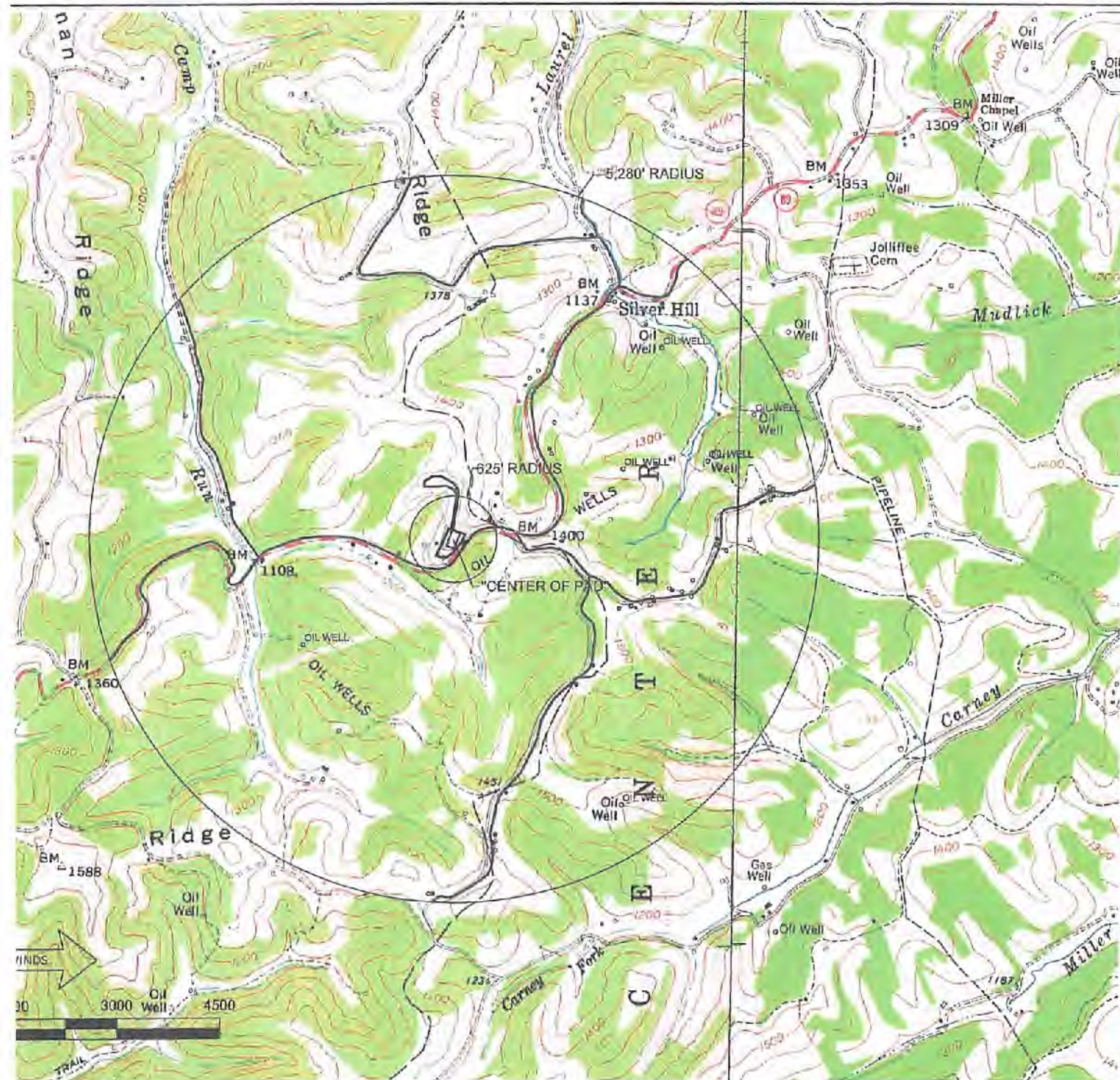
Date: _____

Title: _____

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Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection



COORDINATES:
SITE ENTRANCE
(NAD 83)
LAT: 39.682481
LONG: -80.638975

CENTER OF PAD 1
(NAD 83)
LAT: 39.682409
LONG: -80.639853

CENTER OF PAD 2
(NAD 83)
LAT: 39.684965
LONG: -80.640472

PAD 2 ACCESS FROM PAD 1
(NAD 83)
LAT: 39.683049
LONG: -80.639676

ACCESS AT PAD 2
(NAD 83)
LAT: 39.684572
LONG: -80.6394672

GATHERING AREA
(NAD 83)
LAT:
LONG:

- LEGEND -

- (S) SPRING
- (W) WATER WELL
- (●) HOUSE
- (○) BUILDING

Notes:

1. The existing gas lines shown hereon are based on the location of above ground gas line markers or paint marks. The location of the gas lines may vary and additional buried utilities may be present. Prior to any excavation, call West Virginia Miss Utility @ 811.
2. Elevation datum: NAVD 86, Geoid 12A
3. Horizontal Datum: NAD 83 (2011) West Virginia North Zone



LOCATION MAP
NOT TO SCALE

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

2 WORKING DAYS
BEFORE YOU DAY
CALL TOLL FREE
800-245-4040
Miss Utility of West Virginia

PREPARED FOR:
SWR
Southwestern Energy
SEAL

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Office of Oil and Gas
JUN 03 2012
WV Department of Environmental Protection

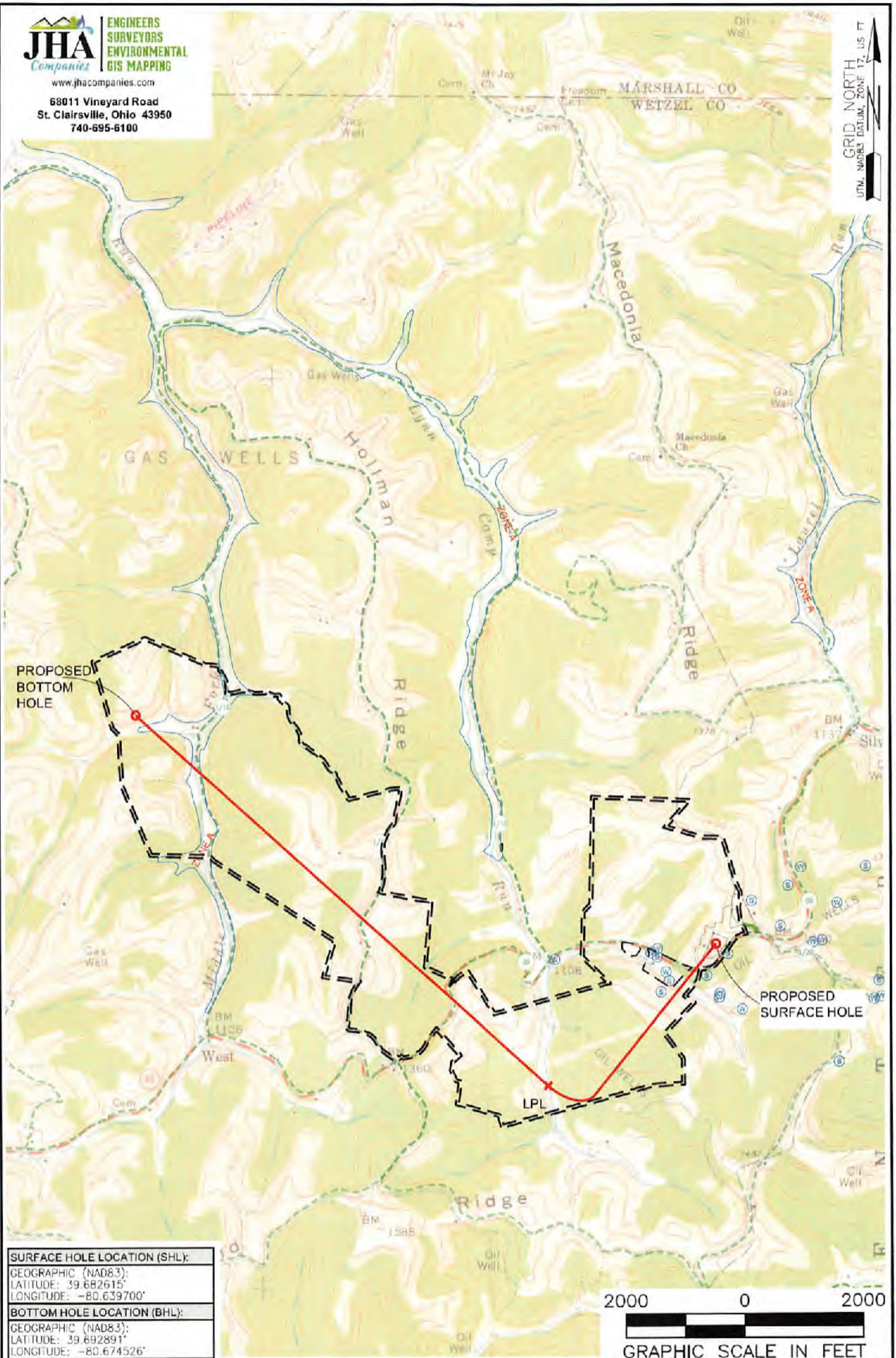
JHA SURVEYORS
COMPANIES ENGINEERS
ENVIRONMENTAL GIS MAPPING
www.jhacompanies.com

68011 VINEYARD ROAD
ST. CLAIRSVILLE, OH 43985
(740) 695-6100
PA * OH * NY * W

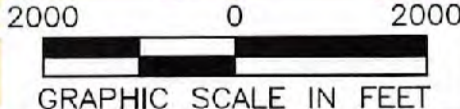
| | | | |
|-------------|------------|----------|-----------|
| PROJECT NO: | 2017-520 | DRAWN: | SRK/PAD A |
| DATE: | 02/14/2018 | DESIGN: | |
| SCALE: | AS NOTED | CHECKED: | |

CONSTRUCTION PLANS
FOR
SWN PAD A
LOCATED IN PROCTOR DISTRICT,
WETZEL COUNTY, WEST VIRGINIA

| | |
|--------------|---------------------------------------|
| TITLE: | EVAUATION ROUTE / PREVAILING WINDS |
| PLAN NUMBER: | DRAFT |



| |
|-------------------------------------|
| SURFACE HOLE LOCATION (SHL): |
| GEOGRAPHIC (NAD83): |
| LATITUDE: 39.682615° |
| LONGITUDE: -80.639700° |
| BOTTOM HOLE LOCATION (BHL): |
| GEOGRAPHIC (NAD83): |
| LATITUDE: 39.692891° |
| LONGITUDE: -80.674526° |



NOTES ON SURVEY

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

LEGEND:

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

07/16/2021

| | | | |
|--|--|-----------------------------|-----------------------------|
| WELL OPERATOR: SWN PRODUCTION COMPANY, LLC | WELL (FARM) NAME: SWN A WTZ | WELL # 601H | SERIAL # XXXX |
| ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508 | COUNTY: WETZEL | CODE: 103 | DISTRICT: PROCTOR |
| SURFACE OWNER: SWN PRODUCTION COMPANY, LLC | USGS 7 1/2 QUADRANGLE MAP NAME: WILEYVILLE, WV | | |
| | | API # 47-103-XXXX | |

LATITUDE: 39°42'30" SURFACE HOLE (2000' SCALE)

4137'

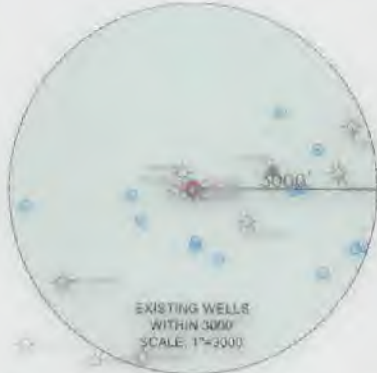
LATITUDE: 39°42'30" BOTTOM HOLE (2000' SCALE)

2220'

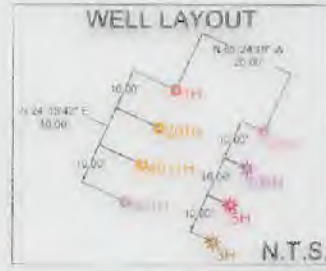


www.jhacompanies.com

88011 Vineyard Road
St. Clairsville, Ohio 43950
740-895-6100



EXISTING WELLS WITHIN 3000' SCALE: 1"=3000'



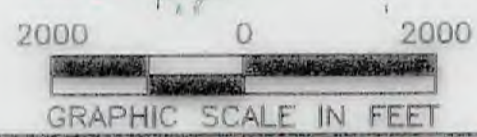
| LINE | BEARING | DISTANCE |
|------|-------------|----------|
| L1 | S71°22'37"W | 1312.67' |
| L2 | S46°58'06"W | 644.53' |



- NOTES ON SURVEY**
- COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREIN WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREIN.
 - NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
 - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

| |
|---|
| SURFACE HOLE LOCATION (SHL) |
| UTM (NAD83, ZONE 17, METERS): NORTHING: 4392593.62 EASTING: 530897.05 |
| LANDING POINT LOCATION (LPL) |
| UTM (NAD83, ZONE 17, METERS): NORTHING: 4391863.75 EASTING: 530045.21 |
| BOTTOM HOLE LOCATION (BHL) |
| UTM (NAD83, ZONE 17, METERS): NORTHING: 4393722.64 EASTING: 527906.46 |

GRID NORTH
UTM, NAD83 DATUM, ZONE 17, 1



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

P.S. 2041

COMPANY: **SWN** Production Company, LLC

| | | | |
|--|---|---|-----------------------------------|
| | (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS | MINIMUM DEGREE OF ACCURACY: 1/200 | OPERATOR'S WELL #: SWN A WTZ 601H |
| | WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034 | PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT) | API WELL #: 47 103 03422 H&A |

| | | | | | | | |
|--|----------------|--|---|---|-------------------------|---------|---|
| WELL TYPE: OIL | WASTE DISPOSAL | PRODUCTION <input checked="" type="checkbox"/> | DEEP | GAS <input checked="" type="checkbox"/> | LIQUID INJECTION | STORAGE | SHALLOW <input checked="" type="checkbox"/> |
| WATERSHED: UPPER OHIO SOUTH | | | | ELEVATION: 1343.1' | | | |
| DISTRICT: PROCTOR | | | | QUADRANGLE: WILEYVILLE, WV | | | |
| SURFACE OWNER: SWN PRODUCTION COMPANY, LLC | | | | ACREAGE: ±128.24 | | | |
| OIL & GAS ROYALTY OWNER: RODNEY CALVERT, ET AL | | | | ACREAGE: ±128.24 | | | |
| DRILL <input checked="" type="checkbox"/> | DRILL DEEPER | REDRILL | FRACTURE OR STIMULATE <input checked="" type="checkbox"/> | PLUG OFF OLD FORMATION | PERFORATE NEW FORMATION | | |
| CONVERT | PLUG & ABANDON | CLEAN OUT & REPLUG | OTHER CHANGE (SPECIFY) | | | | |
| TARGET FORMATION: MARCELLUS | | | | ESTIMATED DEPTH: 7,371' TVD 18,029' TMD | | | |

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508



DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

| | | |
|----------------|--|---|
| LEGEND: | <ul style="list-style-type: none"> Proposed Surface Hole / Bottom Hole Existing / Producing Wellhead LPL: Landing Point Location Existing Water Well Existing Spring Natural Waterway Surveyed Boundary Lease Boundary Proposed Path Public Road | REVISIONS: DATE: 06-28-2021 API NO: 47-103-XXXXX DRAWN BY: R. GRIMES SCALE: 1" = 2000' DRAWING NO: 2016-519 WELL LOCATION PLAT |
|----------------|--|---|

| WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS | | |
|--|--|---|
| TRACT | SURFACE OWNER (S) / ROYALTY OWNER (R) | TAX PARCEL |
| 1 | SWN PRODUCTION COMPANY LLC (S) RODNEY CALVERT, ET AL. (R) | 12-10-29 |
| TRACT | SURFACE OWNER | TAX PARCEL |
| 2 | CALVERT RODNEY A | 12-10-29.5 |
| 3 | DREYER JOSEPH C | 12-15-8 |
| 4 | HAESSLY LAND AND TIMBER LLC | 12-15-7 |
| 5 | HAESSLY LAND AND TIMBER LLC | 12-15-6 |
| 6 | HAESSLY LAND AND TIMBER LLC | 12-15-5 |
| 7 | STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS | PROCTOR CREEK ROAD (COUNTY HIGHWAY 69) |
| 8 | HAESSLY HARDWOOD LUMBER CO | 12-15-4 |
| 9 | HUGGINS JOSEPH DEAN | 12-10-31 |
| 10 | HAESSLY HARDWOOD LUMBER CO | 12-10-23 |
| 11 | HAESSLY LAND AND TIMBER LLC | 12-10-20 |
| 12 | HUGGINS MICHAEL A & PATRICK W | 12-9-23 |
| 13 | GODDARD WAYNE L | 12-9-33 |
| 14 | GODDARD WAYNE L | 12-9-32 |

| ADJOINING OWNERS TABLE | | |
|------------------------|-------------------------------|------------|
| TRACT | SURFACE OWNER | TAX PARCEL |
| A | YOHO NORMA F | 1-7-40 |
| B | SWN PRODUCTION COMPANY | 12-10-29.2 |
| C | CALVERT RODNEY A | 12-10-29.5 |
| D | HUTCHISON MARGARET A | 12-15-9 |
| E | HAESSLY LAND AND TIMBER LLC | 12-15-10 |
| F | LEMASTERS DOLLY G EST | 12-15-19 |
| K | LEMASTERS H C HRS & MANKER | 12-15-18 |
| L | HAESSLY LAND AND TIMBER LLC | 12-15-17 |
| M | STILES MARILYN DIANE | 12-15-16 |
| N | RITCHEA JAMES L | 12-15-4.1 |
| AP | RITCHEA GARY A & ALICIA L | 12-15-15 |
| D | STILES MARILYN DIANE | 12-15-14.2 |
| P | URBANEK SCOTT J | 12-15-3 |
| Q | RITCHEA WILLIAM D | 12-15-2 |
| R | RITCHEA WILLIAM D | 12-15-1.1 |
| S | HUGGINS JOSEPH DEAN | 12-15-1 |
| T | RITCHEA WILLIAM D & SHIRLEY E | 12-14-9 |
| U | GODDARD WAYNE | 12-9-46 |
| V | WOODSTUFF JOYCE K | 12-9-44 |
| W | BLAKE VERIL JEROME | 12-9-42 |
| X | BLAKE VERIL JEROME | 12-9-32 |
| Y | BLAKE VERIL JEROME | 12-9-21 |
| Z | SHULUGA ANDREW D & ANDREA M | 12-9-13 |
| AA | SHULUGA ANDREW D & ANDREA M | 12-9-14 |
| AB | SHULUGA ANDREW D & ANDREA M | 12-9-15 |
| AC | RICHMOND CASS DI PAIGE | 12-10-13 |
| AD | RICHMOND CASS DI PAIGE | 12-10-21 |
| AQ | RITCHEA ROBERT C & JAMES L | 12-10-22 |
| AE | RITCHEA ROBERT C & JAMES L | 12-10-24 |
| AF | HUGGINS JOSEPH DEAN | 12-10-25 |
| AG | SWN PRODUCTION COMPANY LLC | 12-10-26 |
| AH | HAESSLY HARDWOOD LUMBER CO | 12-10-32 |
| AI | HAESSLY LAND AND TIMBER LLC | 12-10-33 |
| AL | SWN PRODUCTION COMPANY LLC | 12-10-28 |
| AK | YOHO DARREN ETAL | 12-10-16 |
| AL | YOHO DARREN ETAL | 12-10-18 |
| AM | DURIG CORY & DAVID | 1-7-2 |
| AN | CALVERT RODNEY A | 12-10-29.4 |
| AO | CALVERT RODNEY A | 12-10-29.1 |

07/16/2021

| | | |
|------------|---|----------------------|
| REVISIONS: | COMPANY:   | |
| | OPERATOR'S | DATE: 05-19-2021 |
| | WELL #: 47-103-0342.2 | API NO: 47-103-XXXX |
| | DISTRICT: PROCTOR | DRAWN BY: R. GRIMES |
| | COUNTY: WETZEL | SCALE: N/A |
| | STATE: WV | DRAWING NO: 2016-519 |
| | | WELL LOCATION PLAT |

WW-6A1
(5/13)

Operator's Well No. SWN A WTZ 601H

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

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

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

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

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JUN 03 2021

WV Department of
Environmental Protection

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

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

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

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

Well Operator: SWN Production Company, LLC.

By: _____

Its: _____

Senior Landman

2243030124

West Virginia Department of Environmental Protection

JUN 03 2021

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EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator
SWN A North WTZ 601H
Wetzel County, West Virginia

| # | TMP | LESSOR | LESSEE | ROYALTY | BK/PG |
|---|------------|---|---|---------|--|
| 1 | 12-10-29 | Isaac L. Carney and Mary Carney, his wife | Hope Natural Gas Company Eagon and Robinson Elva Robinson and Mary Ellen Davis Andrew L. Henry, Charles E. Reed, and Harry R. Cronin, Jr. Charles E. Reed and Kathryn C. Reed Carl Perkins Perkins Oil & Gas, Inc. Stone Energy Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 12.50% | 18A/25 39A/249 43A/440 44A/92 51A/241 55A/54 84A/9 126A/958 158A/564 167A/9 |
| 2 | 12-10-29.3 | Isaac L. Carney and Mary Carney, his wife | Hope Natural Gas Company Eagon and Robinson Elva Robinson and Mary Ellen Davis Andrew L. Henry, Charles E. Reed, and Harry R. Cronin, Jr. Charles E. Reed and Kathryn C. Reed Carl Perkins Perkins Oil & Gas, Inc. Stone Energy Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 12.50% | 18A/25 39A/249 43A/440 44A/92 51A/241 55A/54 84A/9 126A/958 158A/564 167A/9 |

4710808422

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SWN A North Wtz 601H
Wetzel County, West Virginia

| | | | | | |
|---|---------|--------------------------------|---|--------|---|
| 3 | 12-15-8 | Jospeh C. Dreyer, a single man | Antero Resources Corporation SWN Production Company, LLC | 17.00% | 178A/385 248A/897 |
| 4 | 12-15-7 | H. L. Calvert | J.H. Ferrell Frank W. HineLine and Bertha HineLine Clyde Gillispie and Thelma Gillispie Chester Lemon and Nella Lemon W. L. Smith, Jr. Winnie Miller Orcal C. Baker H. L. Calvert J. W. Tobin Mrs. Paul Stillings Mrs. Paul Stillings Mrs. Paul Stillings Oliver Calvert E.R. Busch W. Frank Jones H.L. Calvert E.R. Busch W.H. Miller W.H. Miller W.H. Miller | 12.50% | 33A/272 34A/67 34A/68 34A/69 34A/67 34A/32 34A/39 35A/274 34A/74 36A/15 36A/14 37A/112 33A/488 35A/158 34A/33 35A/285 34A/70 35A/149 35A/187 35A/198 |

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WV Department of
Environmental Protection

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Office of Oil and Gas

JUN 03 2021

Division of
Petroleum and
Natural Gas

4710303422

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator
 SWN A North WTZ 601H
 Wetzel County, West Virginia

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 WV Department of
 Environmental Protection

| | | | | |
|---|---------|---------------|--|----------------|
| | | | Wade H. Miller | 36A/350 |
| | | | Paul V. Stillings | 36A/429 |
| | | | Orval C. Baker and Paul Stillings | 36A/431 |
| | | | Orval C. Baker | 36A/483 |
| | | | Orval C. Baker and Paul V. Stillings | 37A/54 |
| | | | Paul Stillings | 37A/112 |
| | | | Orval C. Baker and Paul Stillings | 37A/155 |
| | | | Paul Stillings | 39A/107 |
| | | | G.F. Eagon and John H. Robinson | 39A/115 |
| | | | Elva Robinson and Mary Ellen Davis | 43A/440 |
| | | | Andrew L. Henry, Charles E. Reed and Harry R. Cronin, Jr. | 44A/92 |
| | | | Charles E. Reed and Kathryn C. Reed | 51A/241 |
| | | | Carl Perkins | 55A/54 |
| | | | Perkins Oil & Gas Inc. | 84A/9 |
| | | | Stone Energy Corporation | 126A/958 |
| | | | Chesapeake Appalachia, L.L.C. | 158A/564 |
| | | | SWN Production Company, LLC | 157A/540 |
| 5 | 12-15-6 | H. L. Calvert | J.H. Ferrell | 12.50% 33A/272 |
| | | | Frank W. Hinline and Bertha Hinline | 34A/67 |
| | | | Clyde Gillispie and Thelma Gillispie | 34A/68 |
| | | | Chester Lemon and Nella Lemon | 34A/69 |
| | | | W. L. Smith, Jr. | 34A/67 |
| | | | Winnie Miller | 34A/32 |
| | | | Orcal C. Baker | 34A/39 |
| | | | H. L. Calvert | 35A/274 |

4710303422

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator
SWN A North WTZ 601H
Wetzel County, West Virginia

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Office of Oil and Gas
JUN 03 2021
W.V. Department of
Environmental Protection

| | |
|--|---------|
| J. W. Tobin | 34A/74 |
| Mrs. Paul Stillings | 36A/15 |
| Mrs. Paul Stillings | 36A/14 |
| Mrs. Paul Stillings | 37A/112 |
| Oliver Calvert | 33A/488 |
| E.R. Busch | 35A/158 |
| W. Frank Jones | 34A/33 |
| H.L. Calvert | 35A/285 |
| E.R. Busch | 34A/70 |
| W.H. Miller | 35A/149 |
| W.H. Miller | 35A/187 |
| W.H. Miller | 35A/198 |
| Wade H. Miller | 36A/350 |
| Paul V. Stillings | 36A/429 |
| Orval C. Baker and Paul Stillings | 36A/431 |
| Orval C. Baker | 36A/483 |
| Orval C. Baker and Paul V. Stillings | 37A/54 |
| Paul Stillings | 37A/112 |
| Orval C. Baker and Paul Stillings | 37A/155 |
| Paul Stillings | 39A/107 |
| G.F. Eagon and John H. Robinson | 39A/115 |
| Elva Robinson and Mary Ellen Davis | 43A/440 |
| Andrew L. Henry, Charles E. Reed and Harry R. Cronin, Jr. | 44A/92 |

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator
 SWN A North WTZ 601H
 Wetzel County, West Virginia

| | | | | |
|---|---------|---------------|--------------------------------------|----------------|
| | | | Charles E. Reed and Kathryn C. Reed | 51A/241 |
| | | | Carl Perkins | 55A/54 |
| | | | Perkins Oil & Gas Inc. | 84A/9 |
| | | | Stone Energy Corporation | 126A/958 |
| | | | Chesapeake Appalachia, L.L.C. | 158A/564 |
| | | | SWN Production Company, LLC | 157A/540 |
| 6 | 12-15-5 | H. L. Calvert | J.H. Ferrell | 12.50% 33A/272 |
| | | | Frank W. Hinline and Bertha Hinline | 34A/67 |
| | | | Clyde Gillispie and Thelma Gillispie | 34A/68 |
| | | | Chester Lemon and Nella Lemon | 34A/69 |
| | | | W. L. Smith, Jr. | 34A/67 |
| | | | Winnie Miller | 34A/32 |
| | | | Orcal C. Baker | 34A/39 |
| | | | H. L. Calvert | 35A/274 |
| | | | J. W. Tobin | 34A/74 |
| | | | Mrs. Paul Stillings | 36A/15 |
| | | | Mrs. Paul Stillings | 36A/14 |
| | | | Mrs. Paul Stillings | 37A/112 |
| | | | Oliver Calvert | 33A/488 |
| | | | E.R. Busch | 35A/158 |
| | | | W. Frank Jones | 34A/33 |
| | | | H.L. Calvert | 35A/285 |
| | | | E.R. Busch | 34A/70 |
| | | | W.H. Miller | 35A/149 |
| | | | W.H. Miller | 35A/187 |
| | | | W.H. Miller | 35A/198 |

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EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator
 SWN A North WTZ 601H
 Wetzel County, West Virginia

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| | |
|---|----------|
| Wade H. Miller | 36A/350 |
| Paul V. Stillings | 36A/429 |
| Orval C. Baker and Paul Stillings | 36A/431 |
| Orval C. Baker | 36A/483 |
| Orval C. Baker and Paul V. Stillings | 37A/54 |
| Paul Stillings | 37A/112 |
| Orval C. Baker and Paul Stillings | 37A/155 |
| Paul Stillings | 39A/107 |
| G.F. Eagon and John H. Robinson | 39A/115 |
| Elva Robinson and Mary Ellen Davis | 43A/440 |
| Andrew L. Henry, Charles E. Reed and Harry R. Cronin, Jr. | 44A/92 |
| Charles E. Reed and Kathryn C. Reed | 51A/241 |
| Carl Perkins | 55A/54 |
| Perkins Oil & Gas Inc. | 84A/9 |
| Stone Energy Corporation | 126A/958 |
| Chesapeake Appalachia, L.L.C. | 158A/564 |
| SWN Production Company, LLC | 157A/540 |

| | | | | | |
|---|---|---|--|--------|----------------------|
| 7 | Proctor Creek Road (County Highway 89) | West Virginia Department of Transportation, Division of Highways | Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 15.00% | 144A/555 157A/540 |
|---|---|---|--|--------|----------------------|

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SWN A North Wtz 601H
Wetzel County, West Virginia

| | | | | | |
|---|---------|---------------|---------------------------------------|--------|---------|
| 8 | 12-15-4 | H. L. Calvert | J.H. Ferrell | 12.50% | 33A/272 |
| | | | Frank W. HineLine and Bertha HineLine | | 34A/67 |
| | | | Clyde Gillispie and Thelma Gillispie | | 34A/68 |
| | | | Chester Lemon and Nella Lemon | | 34A/69 |
| | | | W. L. Smith, Jr. | | 34A/67 |
| | | | Winnie Miller | | 34A/32 |
| | | | Orval C. Baker | | 34A/39 |
| | | | H. L. Calvert | | 35A/274 |
| | | | J. W. Tobin | | 34A/74 |
| | | | Mrs. Paul Stillings | | 36A/15 |
| | | | Mrs. Paul Stillings | | 36A/14 |
| | | | Mrs. Paul Stillings | | 37A/112 |
| | | | Oliver Calvert | | 33A/488 |
| | | | E.R. Busch | | 35A/158 |
| | | | W. Frank Jones | | 34A/33 |
| | | | H.L. Calvert | | 35A/285 |
| | | | E.R. Busch | | 34A/70 |
| | | | W.H. Miller | | 35A/149 |
| | | | W.H. Miller | | 35A/187 |
| | | | W.H. Miller | | 35A/198 |
| | | | Wade H. Miller | | 36A/350 |
| | | | Paul V. Stillings | | 36A/429 |
| | | | Orval C. Baker and Paul Stillings | | 36A/431 |
| | | | Orval C. Baker | | 36A/483 |
| | | | Orval C. Baker and Paul V. Stillings | | 37A/54 |
| | | | Paul Stillings | | 37A/112 |

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 SWN A North W TZ 601H
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| | |
|---|----------|
| Orval C. Baker and Paul Stillings | 37A/155 |
| Paul Stillings | 39A/107 |
| G.F. Eagon and John H. Robinson | 39A/115 |
| Elva Robinson and Mary Ellen Davis | 43A/440 |
| Andrew L. Henry, Charles E. Reed and Harry R. Cronin, Jr. | 44A/92 |
| Charles E. Reed and Kathryn C. Reed | 51A/241 |
| Carl Perkins | 55A/54 |
| Perkins Oil & Gas Inc. | 84A/9 |
| Stone Energy Corporation | 126A/958 |
| Chesapeake Appalachia, L.L.C. | 158A/564 |
| SWN Production Company, LLC | 157A/540 |

| | | | | | |
|----|----------|--|---|--------|----------|
| 9 | 12-10-31 | Appalachian Royalties, Inc. | SWN Production Company, LLC | 18.00% | 188A/126 |
| | | Haddad and Brooks, Inc. | SWN Production Company, LLC | 18.00% | 185A/589 |
| | | Joseph Dean Huggins & Bobbie Sue Huggins, husband and wife | SWN Production Company, LLC | 18.00% | 185A/587 |
| 10 | 12-10-23 | Ella Postlethwait, widow | The Manufacturer's Light and Heat Company | 12.50% | 45A/231 |
| | | | Columbia Gas Transmission Corporation | | 263/164 |
| | | | Chesapeake Appalachia, L.L.C. | | 90A/242 |
| | | | SWN Production Company, LLC | | 157A/540 |

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EXHIBIT "A"

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 SWN A North WTZ 601H
 Wetzel County, West Virginia

| | | | | | |
|----|----------|---|--|--------------------------------------|---|
| 11 | 12-10-20 | Ella Postlethwait, widow | The Manufacturer's Light and Heat Company Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 12.50% 12.50% | 45A/231 263/164 90A/242 157A/540 |
| 12 | 12-9-23 | Willard C. Herman, single | The Manufacturer's Light and Heat Company Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 12.50% 12.50% | 45A/459 263/164 90A/242 157A/540 |
| 13 | 12-9-33 | Edward A. Neuman, & Isabelle Neuman, his wife; Frances Alma Emmert; Mary A. Barnes, widow; Ola Vandegrift, widow; Loretta Sappington, widow; John A. Noon & Alison Noon, his wife The Mary E. Tracy Trust dated April 6, 1910, by Terri Coleman Hufnagel, acting as Substitute Trustee | The Manufacturer's Light and Heat Company Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 12.50% 15.00% | 47A/67 263/164 90A/242 167A/9 113A/71 157A/540 |
| 14 | 12-9-22 | C.F. Herman and Edna M. Herman, his wife | The Manufacturer's Light and Heat Company Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 12.50% 12.50% | 45A/367 263/164 90A/242 157A/540 |

May 20, 2021

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

RE: SWN's proposed New Well: SWN A WTZ 601H in Wetzel County, West Virginia, Drilling under Middle Fork Road, Hollman Ridge Road and Proctor Creek Road.

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 Middle Fork Road, Hollman Ridge Road and Proctor Creek Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,



Bradley Wilson
Senior Landman
SWN Production Company, LLC

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

Date of Notice Certification: 4/2/21

4710303422

API No. 47- ~~000~~ - _____
Operator's Well No. SWN A WTZ 601H
Well Pad Name: SWN A WTZ Pad

Notice has been given:

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

| | | |
|------------------------------------|---|-----------------------------|
| State: <u>West Virginia</u> | UTM NAD 83 | Easting: <u>530897.05</u> |
| County: <u>103-Wetzel</u> | | Northing: <u>4392593.62</u> |
| District: <u>Proctor</u> | Public Road Access: <u>Macedonia Ridge Road</u> | |
| Quadrangle: <u>Wileyville</u> | Generally used farm name: <u>SWN A</u> | |
| Watershed: <u>Upper Ohio South</u> | | |

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

| | | |
|---|---|--|
| Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY | | OOG OFFICE USE ONLY |
| <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED | | <input type="checkbox"/> RECEIVED/ NOT REQUIRED |
| <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED | | <input type="checkbox"/> RECEIVED |
| <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER | | <input type="checkbox"/> RECEIVED/ NOT REQUIRED |
| <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION | (PLEASE ATTACH) RECEIVED Office of Oil and Gas JUN 03 2021 WV Department of Environmental Protection | <input type="checkbox"/> RECEIVED |
| <input checked="" type="checkbox"/> 5. PUBLIC NOTICE | | <input type="checkbox"/> RECEIVED |
| <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION | | <input type="checkbox"/> RECEIVED |

Required Attachments:

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

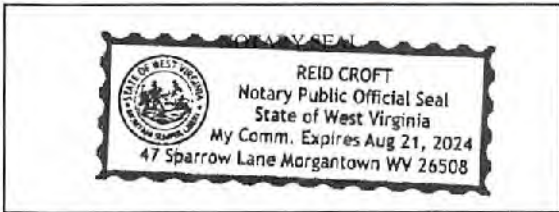
4710303422
4710303422

Certification of Notice is hereby given:

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

| | | | |
|----------------|----------------------------------|------------|-------------------------------|
| Well Operator: | <u>SWN Production Co., LLC</u> | Address: | <u>P.O. Box 1300</u> |
| By: | <u>Brittany Woody</u> | | <u>Jane Lew, WV 26378</u> |
| Its: | <u>Senior Regulatory Analyst</u> | Facsimile: | <u>304-884-1690</u> |
| Telephone: | <u>304-884-1610</u> | Email: | <u>Brittany_Woody@swn.com</u> |

Brittany Woody



Subscribed and sworn before me this 5th day of April, 2021.

Reid Croft

Notary Public

My Commission Expires 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 deprivacyofficer@wv.gov.

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

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

Date of Notice: 4/16/21 Date Permit Application Filed: 4/16/21

Notice of:

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

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

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

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

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

SURFACE OWNER(s)

Name: SWN Production Company, LLC
 Address: PO Box 672625
Houston, TX 77267
 Name: _____
 Address: _____

COAL OWNER OR LESSEE

Name: CNX Gas Company, LLC Attn: Casey Saunders
 Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

COAL OPERATOR

Name: _____
 Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
 Address: _____
 Name: _____
 Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: See Attachment 13A
 Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
 Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: TC Energy Attn: Garrett Word
 Address: Houston Office Bank of America, 700 Louisiana St
Houston, TX 77002

*Please attach additional forms if necessary

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Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

WW-6A
(8-13)

10303422

API NO. 47- ~~000~~ - _____
OPERATOR WELL NO. SWN A WTZ 601H
Well Pad Name: SWN A WTZ Pad

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

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WV Department of
Environmental Protection

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

07/16/2021

WW-6A
(8-13)

10303422
API NO. 47-~~000~~ -
OPERATOR WELL NO. SWN A WTZ 601H
Well Pad Name: SWN A WTZ Pad

Notice is hereby given by:

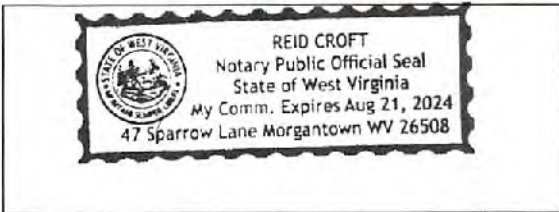
Well Operator: SWN Production Co., LLC
Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

Brittany Woody

Address: P.O. Box 1300
Jane Lew, WV 26378
Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 5th day of April, 2021.
Reid Croft Notary Public
My Commission Expires 8/21/2024

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WV Department of
Environmental Protection

| OWNERNAME | ADDRESS | CITY/STATE/ZIP | WATERSOURCES |
|--------------------------|------------------------|----------------------------|--------------|
| YEATER TERRY W & DORIS, | HC 60 BOX 257 | NEW MARTINSVILLE, WV 26155 | 1 |
| YOHO NORMA F | 828 GREENLAWN AVE NW | WARREN, OH 44483 | 2 |
| YOCUM GARY G & LAVERNE F | HC 60 BOX 252 | NEW MARTINSVILLE, WV 26155 | 4 |
| BICKERSTAFF JACOB & ANNA | 14383 PROCTOR CREEK RD | NEW MARTINSVILLE, WV 26155 | 1 |
| CALVERT RODNEY A | 13998 PROCTOR CREEK RD | NEW MARTINSVILLE, WV 26155 | 7 |

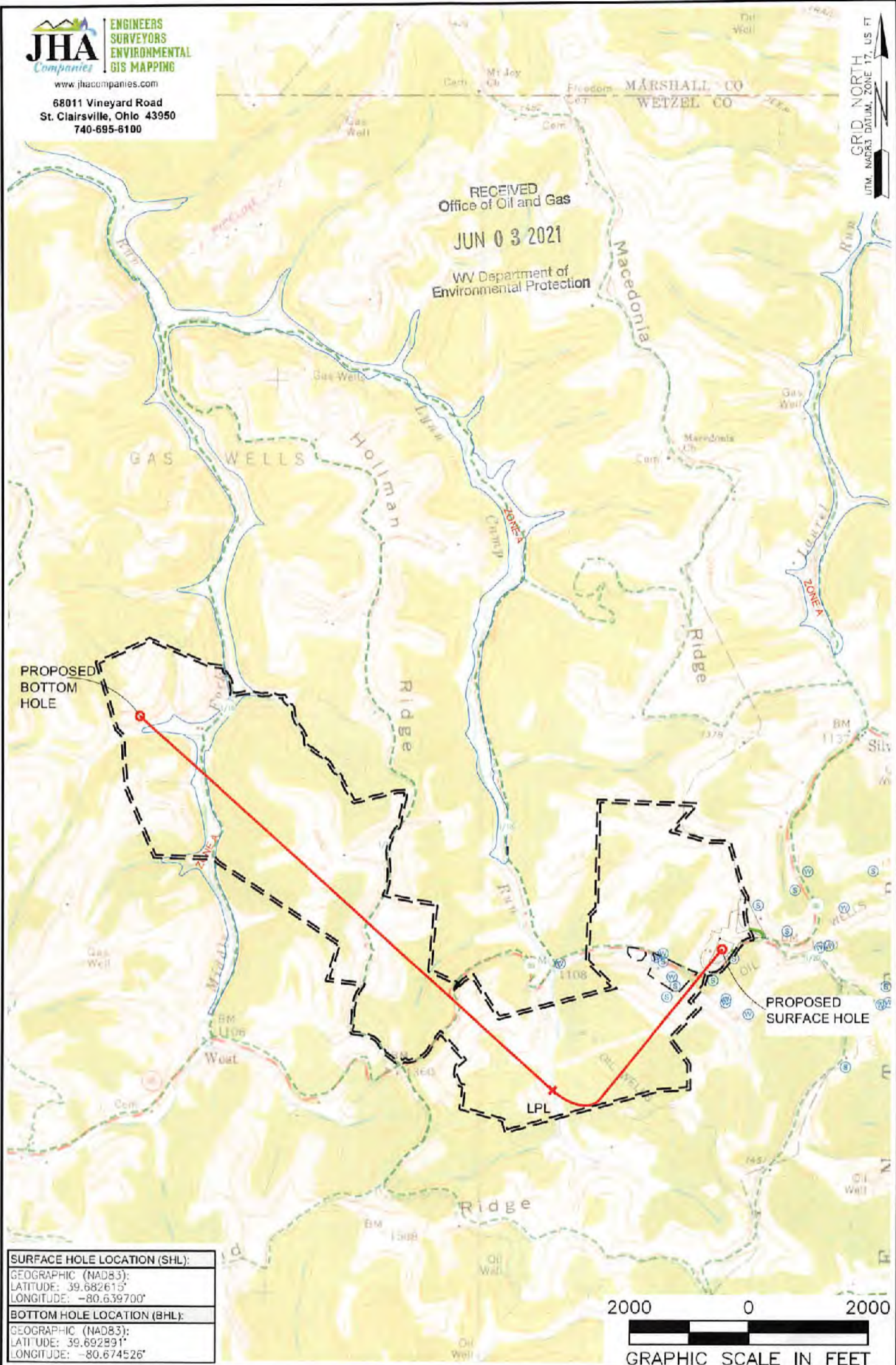
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GIS MAPPING
www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

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Environmental Protection

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



| |
|-------------------------------------|
| SURFACE HOLE LOCATION (SHL): |
| GEOGRAPHIC (NAD83): |
| LATITUDE: 39.682613° |
| LONGITUDE: -80.639700° |
| BOTTOM HOLE LOCATION (BHL): |
| GEOGRAPHIC (NAD83): |
| LATITUDE: 39.692891° |
| LONGITUDE: -80.674526° |

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

| | |
|----------------|---|
| LEGEND: | <ul style="list-style-type: none"> ● PROPOSED SURFACE HOLE / BOTTOM HOLE ✕ EXISTING / PRODUCING WELLHEAD X LPL * LANDING POINT LOCATION FLOOD PLAIN NATIONAL HIGHWAY ACCESS ROAD PUBLIC ROAD ACCESS ROAD TO PREV. SITE LEASE BOUNDARY PROPOSED PATH |
|----------------|---|

| | | | |
|---|--|-----------------------|-----------------------------|
| WELL OPERATOR: SWN PRODUCTION COMPANY, LLC | WELL (FARM) NAME: SWN A WTZ | WELL # 601H | SERIAL # XXXX |
| ADDRESS: 1300 FORT PIERPONT DRVE, SUITE 201, MORGANTOWN, WV 26508 | COUNTY: WETZEL | CODE: 103 | DISTRICT: PROCTOR |
| SURFACE OWNER: SWN PRODUCTION COMPANY, LLC | USGS 7 1/2 QUADRANGLE MAP NAME: WILEYVILLE, WV | | |

07/16/2021

WW-6A3
(1/12)

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

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

Date of Notice: 3/2/2021 Date of Planned Entry: 3/9/2021

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)

Name: SWN Production Company, LLC
Address: PO Box 672625
Houston, TX 77267

Name:
Address:

Name:
Address:

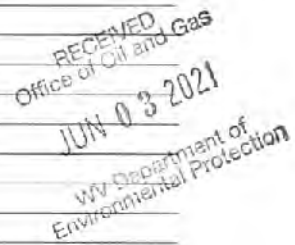
COAL OWNER OR LESSEE

Name: GNX Gas Company, LLC Attn: Casey Saunders
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

MINERAL OWNER(s)

Name: Franklin Thomas Barrett
Address: 595 W. New York Ave
Sabring, OH 44672

*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
County: Wetzel
District: Proctor
Quadrangle: Wileyville

Approx. Latitude & Longitude: 39.684757, -80.640554
Public Road Access: Macedonia Ridge
Watershed: Upper Ohio South
Generally used farm name: SWN A WTZ Pad

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 hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC
Telephone: 304-884-1610
Email: brittany_woody@swn.com

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

Oil and Gas Privacy Notice:

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

WW-6A3
(1/12)

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

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

Date of Notice: 3/2/2021 **Date of Planned Entry:** 3/9/2021

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)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

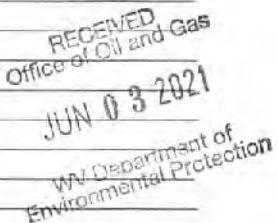
COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Nancy G Melheny
Address: 3943 N. Park Ave
Warren, OH 44481

*please attach additional forms if necessary



Notice is hereby given:

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

| | |
|-------------------------------|--|
| State: <u>WV</u> | Approx. Latitude & Longitude: <u>39.684757, -80.640554</u> |
| County: <u>Wetzel</u> | Public Road Access: <u>Macedonia Ridge</u> |
| District: <u>Proctor</u> | Watershed: <u>Upper Ohio South</u> |
| Quadrangle: <u>Wileyville</u> | Generally used farm name: <u>SWN A WTZ Pad</u> |

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 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 hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC
Telephone: 304-884-1610
Email: dee_southall@swn.com or brittany_woody@swn.com

Address: PO BOX 1300
JANE LEW, WV 26378
Facsimile: _____

Oil and Gas Privacy Notice:

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

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: 3/2/2021 **Date of Planned Entry:** 3/9/2021

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)
Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

MINERAL OWNER(s)
Name: Ammon A. Burley
Address: 13 Amos Hollow Road
Cameron, WV 26033

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WV Department of
Environmental Protection

*please attach additional forms if necessary

Notice is hereby given:

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

| | |
|-------------------------------|--|
| State: <u>WV</u> | Approx. Latitude & Longitude: <u>39.684757, -80.640554</u> |
| County: <u>Wetzel</u> | Public Road Access: <u>Macedonia Ridge</u> |
| District: <u>Proctor</u> | Watershed: <u>Upper Ohio South</u> |
| Quadrangle: <u>Wileyville</u> | Generally used farm name: <u>SWN A WIZ Pad</u> |

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 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 hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC
Telephone: 304-884-1610
Email: dee_southall@swn.com or brittany_woody@swn.com

Address: PO BOX 1300
JANE LEW, WV 26378
Facsimile: _____

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07/16/2021

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: 3/2/2021 **Date of Planned Entry:** 3/9/2021

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)
 Name: _____
 Address: _____

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

MINERAL OWNER(s)
 Name: Timothy N. Burley
 Address: 10669 Ravenna Ave
 Louisville, OH 44541

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JUN 03 2021
WV Department of
Environmental Protection

*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: 39.684757, -80.640554 |
| County: Wetzel | Public Road Access: Macadonia Ridge |
| District: Proctor | Watershed: Upper Ohio South |
| Quadrangle: Wileyville | Generally used farm name: SWN A WTZ Pad |

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 hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC
 Telephone: 304-884-1610
 Email: dee_southall@swn.com or brittany_woodly@swn.com

Address: PO BOX 1300
 JANE LEW, WV 26378
 Facsimile: _____

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

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

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

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Office of Oil and Gas

JUN 03 2021

MINERAL OWNER(s)

Name: Rodney A. Galvert
Address: 13998 Proctor Creek Road
New Martinsville, WV 26155

WV Department of
Environmental Protection

*please attach additional forms if necessary

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|-------------------------------|--|
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| District: <u>Proctor</u> | Watershed: <u>Upper Ohio South</u> |
| Quadrangle: <u>Wileyville</u> | Generally used farm name: <u>SWN A WTZ Pad</u> |

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Notice is hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC Address: PO BOX 1300

Telephone: 304-884-1610 JANE LEW, WV 26378

Email: dee_southall@swn.com or brittany_woody@swn.com Facsimile: _____

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Notice is hereby provided to:

SURFACE OWNER(s)
Name: _____
Address: _____
Name: _____
Address: _____
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

MINERAL OWNER(s)
Name: Krystal K. Camp
Address: 9385 Pricetown Road
Berlin Center, OH 44401
*please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
JUN 03 2021
WV Department of
Environmental Protection

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: | 39.684757, -80.640564 |
| County: | Wetzel | Public Road Access: | Macedonia Ridge |
| District: | Proctor | Watershed: | Upper Ohio South |
| Quadrangle: | Wileyville | Generally used farm name: | SWN A WTZ Pad |

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 hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC Address: PO BOX 1300
Telephone: 304-884-1610 JANE LEW, WV 26378
Email: des_southhall@swn.com or brittany_woody@swn.com Facsimile: _____

Oil and Gas Privacy Notice:

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

WW-6A3
(1/12)

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

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

Date of Notice: 3/2/2021 **Date of Planned Entry:** 3/5/2021

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

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

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

Notice is hereby provided to:

SURFACE OWNER(S)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(S)

Name: Cerrow, LLC
Address: 535 Briardliff Court
New Martinsville, WV 26155

*please attach additional forms if necessary

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection

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
County: Wetzel
District: Proctor
Quadrangle: Wileyville

Approx. Latitude & Longitude: 39.684757, -80.640554
Public Road Access: Macedonia Ridge
Watershed: Upper Ohio South
Generally used farm name: SWN A WTZ Pad

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 hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC
Telephone: 304-864-1610
Email: dee_southall@swn.com or brittany_wcody@swn.com

Address: PO BOX 1300
JANE LEW, WV 26378
Facsimile: _____

Oil and Gas Privacy Notice:

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

07/16/2021

WW-6A3
(1/12)

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

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

Date of Notice: 3/2/2021 **Date of Planned Entry:** 3/9/2021

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)
 Name: _____
 Address: _____

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

MINERAL OWNER(s)
 Name: Jeffrey L. Fish
 Address: 18757 Beverly Drive
 North Benton, OH 4449

*please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
JUN 03 2021
WV Department of
Environmental Protection

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: 39.664757, -80.640554 |
| County: Wetzel | Public Road Access: Macedonia Ridge |
| District: Proctor | Watershed: Upper Ohio South |
| Quadrangle: Wileyville | Generally used farm name: SWN A WTZ Pad |

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 hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC Address: PO BOX 1300
 Telephone: 304-884-1610 JANE LEW, WV 26378
 Email: dee_southall@swn.com or britany_woody@swn.com Facsimile: _____

Oil and Gas Privacy Notice:

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

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: 3/2/2021 **Date of Planned Entry:** 3/9/2021

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Michael A. Fish
Address: 18795 Beverly Drive
North Benton, OH 4449

*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
County: Wetzel
District: Procter
Quadrangle: Wileyville

Approx. Latitude & Longitude: 39.684757, -90.640554
Public Road Access: Macedonia Ridge
Watershed: Upper Ohio South
Generally used farm name: SWN A WTZ Pad

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 hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC
Telephone: 304-884-1610
Email: dee_southall@swn.com or brittany_waddy@swn.com

Address: PO BOX 1300
JANE LEW, WV 26378
Facsimile: _____

Oil and Gas Privacy Notice:

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

07/16/2021

WW-6A3
(1/12)

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

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

Date of Notice: 3/2/2021 **Date of Planned Entry:** 3/8/2021

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)

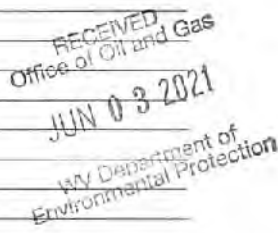
Name: _____
 Address: _____
 Name: _____
 Address: _____
 Name: _____
 Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: Sharon Zeppernick
 Address: 625 W. Virginia Avenue
Sebring, OH 44672
 *please attach additional forms if necessary



Notice is hereby given:

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

| | |
|-------------------------------|--|
| State: <u>WV</u> | Approx. Latitude & Longitude: <u>39.634757, -80.640554</u> |
| County: <u>Wetzel</u> | Public Road Access: <u>Macedonia Ridge</u> |
| District: <u>Prector</u> | Watershed: <u>Upper Ohio South</u> |
| Quadrangle: <u>Wileyville</u> | Generally used farm name: <u>SWN A W T Z Pad</u> |

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 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 hereby given by:

| | |
|---|-----------------------------|
| Well Operator: <u>SWN PRODUCTION COMPANY, LLC</u> | Address: <u>PO BOX 1300</u> |
| Telephone: <u>304-884-1610</u> | <u>JANE LEW, WV 26378</u> |
| Email: <u>dep_southall@swn.com or brittany_woodly@swn.com</u> | Facsimile: _____ |

Oil and Gas Privacy Notice:

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

4710303422

Operator Well No. SWN A WTZ 601H

WW-6A4
(1/12)

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

Date of Notice: 03/18/2021 Date Permit Application Filed: 4/14/21

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

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: SWN Production Company, LLC
Address: PO Box 672625
Houston, TX 77267

Name: _____
Address: _____

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Office of Oil and Gas
JUN 03 2021
WV Department of Environmental Protection

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 530,897.051
County: Wetzel Northing: 4,392,593.624
District: Proctor Public Road Access: Macedonia Ridge
Quadrangle: Wileyville, WV Generally used farm name: SWN A WTZ
Watershed: Upper Ohio South

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:

Well Operator: SWN Production Company, LLC
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone: 304-884-1675
Email: Justin_Booth@swn.com
Facsimile: 304-884-1691

Authorized Representative: Justin Booth
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone: 304-884-1675
Email: Justin_Booth@swn.com
Facsimile: 304-884-1691

Oil and Gas Privacy Notice:

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07/16/2021

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

Date of Notice: 03/18/2021 **Date Permit Application Filed:** 6/16/21

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

- HAND DELIVERY
- CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: CNX Gas Company, LLC, ATTN: Casey Saunders
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: _____
Address: _____

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection

Notice is hereby given:

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

| | | | | |
|-------------|------------------|---------------------------|-----------------|---------------|
| State: | West Virginia | UTM NAD 83 | Easting: | 530,897.051 |
| County: | Wetzel | | Northing: | 4,392,593.624 |
| District: | Proctor | Public Road Access: | Macedonia Ridge | |
| Quadrangle: | Wileyville, WV | Generally used farm name: | SWN A Wtz | |
| Watershed: | Upper Ohio South | | | |

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:

Well Operator: SWN Production Company, LLC
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone: 304-884-1675
Email: Justin_Booth@swn.com
Facsimile: 304-884-1891

Authorized Representative: Justin Booth
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone: 304-884-1675
Email: Justin_Booth@swn.com
Facsimile: 304-884-1691

Oil and Gas Privacy Notice:

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

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

Date of Notice: 03/18/2021 **Date Permit Application Filed:** 4/14/21

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

- CERTIFIED MAIL RETURN RECEIPT REQUESTED
- HAND 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: SWN Production Company, LLC
Address: PO box 872625
Houston, TX 77267

Name: _____
Address: _____

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection

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 | U1M NAD 83 | Easting: | 530,897.051 |
| County: | Welzel | | Northing: | 4,392,593.624 |
| District: | Proctor | Public Road Access: | Macedonia Ridge | |
| Quadrangle: | Wileyville, WV | Generally used farm name: | SWN A WTZ | |
| Watershed: | Upper Ohio South | | | |

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 www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: SWN Production Company, LLC
Telephone: 304-884-1675
Email: Justin_Booth@SWN.com

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1691

Oil and Gas Privacy Notice:

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

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

Date of Notice: 03/18/2021 **Date Permit Application Filed:** 4/14/21

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: CNX Gas Company, LLC ATTN: Casey Saunders
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: _____
Address: _____

RECEIVED
Office of Oil and Gas
JUN 03 2021

Notice is hereby given:

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

| | | | | |
|-------------|-------------------------|---------------------------|------------------------|----------------------|
| State: | <u>West Virginia</u> | UTM NAD 83 | Easting: | <u>530,897.051</u> |
| County: | <u>Wetzel</u> | | Northing: | <u>4,392,593.624</u> |
| District: | <u>Proctor</u> | Public Road Access: | <u>Macedonia Ridge</u> | |
| Quadrangle: | <u>Wileyville, WV</u> | Generally used farm name: | <u>SWN A WTZ</u> | |
| Watershed: | <u>Upper Ohio South</u> | | | |

WV Department of
Environmental Protection

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 www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: SWN Production Company, LLC
Telephone: 304-884-1675
Email: Justin_Booth@SWN.com

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1681

Oil and Gas Privacy Notice:

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

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

March 10, 2021

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

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

Subject: DOH Permit for the SWN A Pad, Wetzel County
SWN A W1Z 601H Well Site

RECEIVED
Office of Oil and Gas
JUN 03 2021
WV Department of
Environmental Protection

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0223 which has been issued to Southwestern Energy for access to the State Road for a well site located off Wetzel County Route 89 SLS MP 14.37.

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,

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

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

Attachment VI Frac Additives

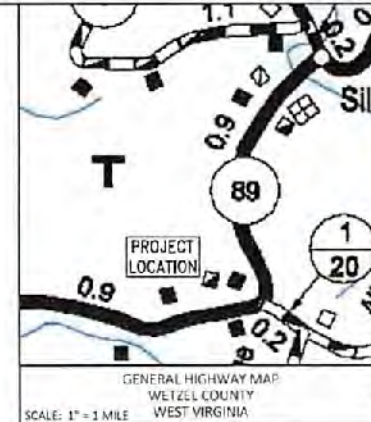
| Product Name | Product Use | Chemical Name | CAS Number |
|---------------------------------------|--------------------------|---|-------------|
| AI-303 (U.S. Well Services) | Mixture | Ethylene glycol | 107-21-1 |
| | | Cinnamaldehyde | 104-55-2 |
| | | Butyl cellosolve | 111-76-2 |
| | | Formic acid | 64-18-6 |
| | | Polyether | Proprietary |
| | | Acetophenone, thiourea, formaldehyde polymer | 68527-49-1 |
| AP ONE (U.S. Well Services) | Breaker | Ammonium persulfate | 7727-54-0 |
| Bactron K-139 (Champion Technologies) | Biocide | Glutaraldehyde | 111-30-8 |
| | | Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides | 68424-85-1 |
| | | Ethanol | 64-17-5 |
| Bactron K-219 (Champion Technologies) | Biocide | Methanol | 67-56-1 |
| | | Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides | 68424-85-1 |
| CarboNRT | Tracer | Ceramic Proppant | 66402-68-4 |
| EC6486A (Nalco Champion) | Scale Inhibitor | Amine Triphosphate | Proprietary |
| | | Ethylene Glycol | 107-21-1 |
| EC6734A (Champion Technologies) | Biocide | Hydrogen Peroxide | 7722-84-1 |
| | | Acetic Acid | 64-19-7 |
| | | Peroxyacetic Acid | 79-21-0 |
| Econo-CI200 (SWN Well Services) | Corrosion Inhibitor | Methanol | 67-56-1 |
| | | Oxyalkylated fatty acid | 68951-67-7 |
| | | Fatty acids | 61790-12-3 |
| | | Modified thiourea polymer | 68527-49-1 |
| | | Water | 7732-18-5 |
| | | Hydrochloric acid | 7647-01-0 |
| | | Potassium acetate | 127-08-2 |
| | | Formaldehyde | 50-00-0 |
| Ecopol-FEAC (SWN Well Services) | Iron Control | Acetic Acid | 64-19-7 |
| | | Citric Acid | 77-92-9 |
| | | Water | 7732-18-5 |
| FDP-S1176-15 (Halliburton) | Friction Reducer | Polyacrylate | Proprietary |
| | | Hydrotreated light petroleum distillate | 64742-47-8 |
| FLOJET DR900 LPP (SWN Well Services) | Friction Reducer | Distillates (petroleum) hydrotreated light | 64674-47-8 |
| | | Ethylene Glycol | 107-21-1 |
| | | Alcohols, C12-16, Exoxylated prooxylated | 68213-24-1 |
| | | Fatty Alcohols ethoxylated | Proprietary |
| | | Water | 7732-18-5 |
| FLOJET DRP 1130X (SWN Well Services) | Friction Reducer | Proprietary | Proprietary |
| FR-76 (Halliburton) | Friction Reducer | Hydrotreated light petroleum distillate | 64742-47-8 |
| | | Inorganic Salt | Proprietary |
| GYPTRON T-390 (Champion Technologies) | Scale Inhibitor | Methanol | 67-56-1 |
| | | Nonylphenol Ethoxylate | Proprietary |
| HAI-150E (Halliburton) | Corrosion Inhibitor | No hazardous substance | N/A |
| HCL (SWN Well Services) | Hydrochloric Acid | Hydrochloric Acid | 7647-01-0 |
| | | Water | 7732-18-5 |
| LP-65 MC (Halliburton) | Scale Inhibitor | Organic phosphonate | Proprietary |
| | | Ammonium Chloride | 12125-02-9 |
| OPTI-FLEX (U.S. Well Services) | Viscosifying Agent | Distillates, petroleum, hydrotreated light | 64742-47-8 |
| Plexslick 930 | Friction Reducer | Copolymer of 2-propenamamide | Proprietary |
| | | Hydrotreated Distillate | 64742-47-8 |
| | | Sodium Chloride | 7647-14-5 |
| | | Alcohols, C12-16, Exoxylated | 68551-12-2 |
| | | Oleic Acid Diethanolamide | 93-83-4 |
| Plexslick 953 | Friction Reducer | Ammonium Chloride | 12125-02-9 |
| | | Petroleum Distillate | 64742-47-8 |
| | | Sodium Chloride | 7647-14-5 |
| | | Ammonium Chloride | 12125-02-9 |
| Plexslick 957 | Friction Reducer | N,N-bis (2-hydroxyethyl) oleamide | 93-83-4 |
| | | Petroleum Distillate | 64742-47-8 |
| | | Ammonium Chloride | 12125-02-9 |
| | | Oleic Acid Diethanolamide | 93-83-4 |
| | | Alcohols, C12-16, Exoxylated | 68551-12-2 |
| WFRA-2000 (U.S. Well Services) | Anionic Friction Reducer | Water | 7732-18-5 |
| | | Hydrotreated light distillate (petroleum) | 64742-47-8 |
| Plexaid 655 NM | Scale Inhibitor | Propenoic acid, polymer with propenamamide | 9003-06-9 |
| Plexslick 922 | no data available | Diethylenetriamine penta (methylene phosphonic acid) | 15827-30-8 |
| | | Copolymer of 2-propenamamide | 69418-26-4 |
| | | Distillates (petroleum), hydrotreated light | 64742-47-8 |
| | | Ammonium chloride ((NH4)Cl) | 12125-02-9 |
| Tolcide PSS0A | Biocidal product | Oleic Acid Diethanolamide | 93-83-4 |
| | | Tetrakis (hydroxymethyl) phosphonium sulphate | 55566-30-8 |
| LD-2950 | Friction Reducer | Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups | 397256-50-7 |
| | | Hydrotreated light petroleum distillate | 64742-47-8 |
| Legend LD-7750W | Scale Control | Ethoxylated alcohol | Proprietary |
| | | Poly (oxy-1,2-ethanediyl) alpha.-tridecyl.-omega.-hydroxy-, branched | 69011-36-5 |
| | | Methanol | 67-56-1 |
| MC MX 8-4743 | Specialty Product | Phosphonic Acid Salt | Proprietary |
| | | Sodium Nitrate | 7631-99-4 |

RECEIVED
Office of Oil and Gas
JUN 03 2021
WV Department of
Environmental Protection

NOTES:

1. THIS PLAN IS FOR GRADING, STORMWATER SYSTEMS, AND EROSION AND SEDIMENT CONTROL PURPOSES ONLY.
2. PROPERTY INFORMATION SHOWN HEREON IS FROM GIS DATA PROVIDED BY SOUTHWESTERN ENERGY PRODUCTION COMPANY AND HAS NOT BEEN FIELD VERIFIED.
3. THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SET FULLY DEFINE ALL WORK ASSOCIATED WITH THIS PROJECT.
4. SOIL TYPE BOUNDARY AND CHARACTERISTICS SHOWN HEREON WERE ACQUIRED FROM NRCS WEB SOIL SURVEY.
5. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT, DATED MARCH 21, 2017, PROVIDED BY GTA ENERGY, LLC FOR FULL SOIL STABILIZATION TECHNIQUES TO BE IMPLEMENTED IN CONSTRUCTION OF CUT AND FILL SLOPES.
6. THE TOPOGRAPHIC SURVEY USED FOR THIS BASE MAPPING INSIDE THE LOD WAS PERFORMED BY JHA COMPANIES FROM JANUARY 03, 2017 TO JUNE 28, 2018. TOPOGRAPHIC MAPPING OUTSIDE OF THE LOD IS FROM LIDAR DATA FROM WV GIS TECHNICAL CENTER.
7. NO TOPOSOIL REMOVAL BETWEEN LIMIT OF CONSTRUCTION AND LIMIT OF DISTURBANCE VEGETATIVE BUFFER TO REMAIN.
8. FILL WILL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (AS1M-60S). FILL LIFT THICKNESS WILL BE NO GREATER THAN 12". NOTHING FROZEN OR TOO WET WILL BE PLACED IN FILL AREAS. PARTICLE SIZE OF THE FILL WILL BE NO GREATER THAN 6" AND FREE OF OBJECTIONABLE MATERIAL.

EROSION AND SEDIMENT CONTROL PLAN FOR SWN PAD A PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA WILEYVILLE 7.5 MINUTE QUAD MAPS



| LOCATION MAP NOT TO SCALE | |
|---------------------------|------------|
| NO. | DATE |
| 1 | 08/03/2018 |
| 2 | 08/03/2018 |
| 3 | 08/03/2018 |
| 4 | 08/03/2018 |
| 5 | 08/03/2018 |
| 6 | 08/03/2018 |
| 7 | 08/03/2018 |
| 8 | 08/03/2018 |
| 9 | 08/03/2018 |
| 10 | 08/03/2018 |
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| 44 | 08/03/2018 |
| 45 | 08/03/2018 |
| 46 | 08/03/2018 |
| 47 | 08/03/2018 |
| 48 | 08/03/2018 |
| 49 | 08/03/2018 |
| 50 | 08/03/2018 |

| ENGINEER'S ESTIMATE OF QUANTITIES | | |
|---|--------------------|------|
| DESCRIPTION | ESTIMATED QUANTITY | UNIT |
| 18" COMPOST FILTER SOCK | 135 | LF |
| 24" COMPOST FILTER SOCK | 4,475 | LF |
| ROCK CONSTRUCTION ENTRANCE #3 AGGREGATE | 144 | CY |
| CLASS 4 GEOTEXTILE (APRON UNDERLAYMENT) | 634 | SY |
| SITE RESOIL AREA | 2.4 | AC |
| PROPOSED STORM CATCH BASINS | 5 | EA |
| 18" HDPE STORM PIPE (CDD 1 AND 2) | 142.5 | LF |
| 4" HDPE STORM PIPE (CDD 2) | 60 | LF |
| OUTLET PROTECTION | 7 | EA |
| 4" PERF. PVC SCH 40 PIPE (PAD UNDERDRAIN) | 1,715 | LF |
| 4" SOLID PVC SCH 40 PIPE (CATCH BASIN OUTLET) | 407 | LF |
| WELL PAD PERIMETER BERM | 1,745 | LF |
| 4" GATE VALVES | 5 | EA |
| 4" PERF. PVC SCH 20 PIPE (FILL SLOPE BENCH DRAIN) | 8,515 | LF |
| 6" SOLID PVC SCH 20 PIPE (BENCH DRAIN COLLECTOR) | 550 | LF |
| ASTHO #57 (BENCH DRAIN BEDDING) | 1,440 | TONS |
| PAD HEAVY DUTY #67 STONE (6") | 1,070 | CY |
| PAD HEAVY DUTY #1 STONE (14") | 2,490 | CY |
| PAD STANDARD #67 STONE (4") | 2,770 | CY |
| PAD STANDARD #1 STONE (12") | 8,295 | CY |
| ACCESS ROAD #67 STONE (4") | 250 | CY |
| ACCESS ROAD #1 STONE (12") | 965 | CY |
| PAD CLASS 2 GEOTEXTILE | 15,640 | SY |
| ACCESS ROAD CLASS 2 GEOTEXTILE | 1,300 | SY |
| EARTHWORK VOLUME CUT | 97,825 | CY |
| EARTHWORK VOLUME FILL | 53,065 | CY |
| WELL CELLARS | 1 | EA |
| DEODOR (METHADRID EXT OR EQUIVALENT) | 2440 | SY |
| CLEARING AND GRUBBING | 16 | AC |

PROJECT NARRATIVE
PROPOSED CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH THIS DRAWING SET (43 PAGE SHEET SET, DATED 2018-07-17 & REVISIONS DATED 2018-08-03) AND THE GEOTECHNICAL ENGINEERING REPORT (GTA ENERGY, LLC REPORT), WHICH ARE COMPLEMENTARY AND HAVE THE SAME FORCE / EFFECT IN DEFINING THE REQUIREMENTS FOR THE PROJECT. IN THE EVENT OF DISCREPANCIES, IT IS REQUIRED TO IMMEDIATELY CONTACT THE ENGINEER (AGENT) FOR INTERPRETATION.

PROJECT CONTACTS
OPERATOR:
SOUTHWESTERN ENERGY, LLC
179 INNOVATION DRIVE
MALE LEW, WV 26378
PHONE: (304) 854-1518
WWW.SWN.COM

PROJECT COORDINATOR:
KALAB TAYLOR
SOUTHWESTERN ENERGY, LLC
179 INNOVATION DRIVE
MALE LEW, WV 26378
PHONE: (304) 854-1596
EMAIL: KALAB_TAYLOR@SWN.COM

ENGINEER
JHA COMPANIES
65011 VINEYARD ROAD
ST. CLAIRSVILLE, OHIO 43950
PHONE: (740) 695-6100
FAX: (740) 449-2343

PROJECT MANAGER:
JOHN DUBOWSKA

ENVIRONMENTAL:
WETLANDS OR SURFACE WATER INFORMATION WAS DELINEATED BY AJAY ENVIRONMENTAL CONSULTING, LLC DATED FEBRUARY 16, 2018 AND JULY 16, 2018.

TOPOGRAPHIC INFORMATION:
GROUND SURVEY DATED JANUARY 28, 2018
DATUM: HORIZ. NAD 83 WEST VIRGINIA NORTH
VERT. NAVD 83

APPROVED
WVDEP OOG

8/16/2018

COORDINATES:
PAD 1 SITE ENTRANCE
(NAD 83)
LAT: 39.682481
LONG: -80.638975

CENTER OF PAD 1
(NAD 83)
LAT: 39.682509
LONG: -80.639728

STAGING PAD SITE ENTRANCE
(NAD 83)
LAT: 39.683182
LONG: -80.637249

CENTER OF STAGING PAD
(NAD 83)
LAT: 39.683770
LONG: -80.638525

SWN PAD A ONLY - 6.61 ACRES
SWN A STAGING PAD ONLY - 6.16 ACRES
SWN PAD A TOTAL PROJECT - 12.77 ACRES

LANDS N/F OF
SWN PRODUCTION COMPANY, LLC
TMP # 12-10-0029

BICKERSTAFF, JACOB AND ANNA
TMP # 12-10-0029.0002
LIMIT OF DISTURBANCE = 13.16 ACRES

| DWG. NO. | DRAWING DESCRIPTION |
|---------------|--|
| C.001 | COVER SHEET |
| C.002 - C.003 | EVACUATION ROUTE / PREVAILING WINDS |
| C.101 - C.102 | EXISTING CONDITIONS |
| C.201 - C.202 | GRADING AND EROSION CONTROL PLANS |
| C.301 - C.302 | RECLAMATION PLANS |
| C.401 - C.411 | SLOPE STABILIZATION DETAILS & PROFILES |
| C.501 - C.523 | DETAILS |

2 WORKING DAYS BEFORE YOU DAY CALL TOLL FREE 800-245-4848 Miss Utility of West Virginia

PREPARED FOR:
swn
Southwestern Energy®



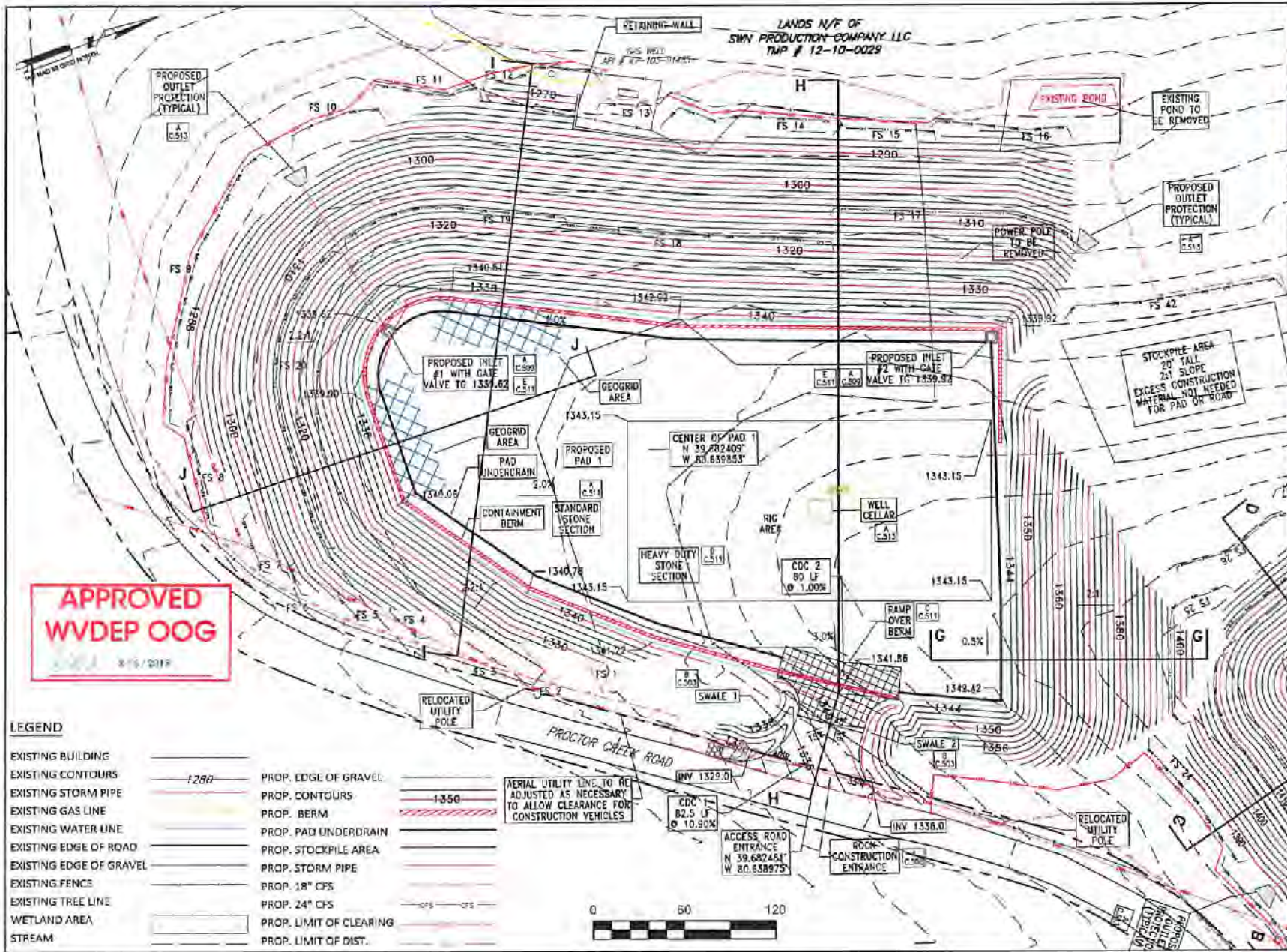
JHA Companies SURVEYORS ENGINEERS ENVIRONMENTAL GIS MAPPING

www.jhacompanies.com
85011 VINEYARD ROAD
ST. CLAIRSVILLE, OH 43950
(740) 695-6100
PA • OH • WV

PROJECT NO: 2017-020 (SWN PAD A)
DATE: 08/03/2018
SCALE: AS NOTED
DRAWN BY: JPD
CHECKED BY: JPD

CONSTRUCTION PLANS FOR SWN PAD A
LOCATED IN PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA

TITLE: COVER SHEET
PLAN STATUS: FINAL
SHEET NO.: C.001



LOCATION MAP NOT TO SCALE

| NO. | DATE | REVISION / DESCRIPTION |
|-----|------|------------------------|
| | | |
| | | |

2 WORKING DAYS BEFORE YOU DAY CALL TOLL FREE 800-245-4948 Miss Utility of West Virginia

PREPARED FOR:
SWN
 Southwestern Energy®



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 www.jhacompanies.com
 68011 VINEYARD ROAD
 ST. CLAIRSVILLE, OH 43950
 (740) 695-6100
 PA * OH * NY * WV

| | | | |
|---|------------|-----------|-------|
| PROJECT NO. | 2017-320 | DRAWN BY | CLW |
| SHEET NO. | SWN PAD A | DESIGNER | CLW |
| DATE | 08/15/2018 | CHECKED | JUT |
| SCALE | AS SHOWN | DATE | JUT |
| CONSTRUCTION PLANS FOR SWN PAD A | | | |
| LOCATED IN PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA | | | |
| TITLE: GRADING AND EROSION CONTROL PLAN | | | |
| PLAN NUMBER | FINAL | SHEET NO. | C.201 |

THIS DRAWING SHALL NOT BE REPRODUCED, COPIED, OR OTHERWISE USED WITHOUT THE WRITTEN PERMISSION OF JHA COMPANIES