



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, November 18, 2024
WELL WORK PERMIT
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for ROTH OHI 406H
47-069-00373-00-00

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: ROTH OHI 406H
Farm Name: ROTH FARMS
U.S. WELL NUMBER: 47-069-00373-00-00
Horizontal 6A New Drill
Date Issued: 11/18/2024

Promoting a healthy environment.

11/22/2024

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. 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. Also, 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.
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.

11/22/2024

WW-6B
(04/15)

4706900373
API NO. 47-069
OPERATOR WELL NO. Roth OHI 406H
Well Pad Name: Roth OHI

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

1) Well Operator: SWN Production Co., LLC
Operator ID: 494512924 County: 069-Ohio District: 005-Richland Quadrangle: 641-Tiltonsville

2) Operator's Well Number: Roth OHI 406H Well Pad Name: Roth OHI

3) Farm Name/Surface Owner: Roth Farms, LLC Public Road Access: Clearview Avenue

4) Elevation, current ground: 1004' Elevation, proposed post-construction: 1004'

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Down-Dip Well to the South, Target Top TVD- 5734', Target Base TVD- 5793', Anticipated Thickness- 56', Associated Pressure- 3770

8) Proposed Total Vertical Depth: 5773'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 26091'

11) Proposed Horizontal Leg Length: 18,768.13'

12) Approximate Fresh Water Strata Depths: 422'

13) Method to Determine Fresh Water Depths: Logs on pad 47-069-00339

14) Approximate Saltwater Depths: 1119' reported in nearby well

15) Approximate Coal Seam Depths: 196'

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

(a) If Yes, provide Mine Info: Name: Valley Camp NO 1
Depth: 196'
Seam: Pittsburgh
Owner: Valley Camp Coal

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OCT 15 2024
WV Department of
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*John C. ...
STRABER LOWER
9/19/2024*

WW-6B
(04/15)

4706900373
 API NO. 47- 069 -
 OPERATOR WELL NO. Roth OHI 406H
 Well Pad Name: Roth OHI

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# | 136' | 136' ✓ | CTS ✓ |
| Fresh Water | 13 3/8" | New | J-55 | 54.4# | 472' | 472' ✓ | 538 sx/CTS |
| Coal | See | Surface | Casing | | | | |
| Intermediate | 9 5/8" | New | J-55 | 36# | 1600' | 1600' ✓ | 634 sx/CTS |
| Production | 5 1/2" | New | P-110 HP | 20# | 26091' | 26091' ✓ | Tail 4972sx/ 100' Inside Intermediate |
| Tubing | | | | | | | |
| Liners | | | | | | | |

| 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" | 0.330 | 1730 | 633 | Class A | 1.20/30% Excess |
| Coal | See | Surface | Casing | | | | |
| Intermediate | 9 5/8" | 12 1/4" | 0.352 | 3520 | 1768 | Class A | 1.19/40% Excess |
| Production | 5 1/2" | 8 3/4"-8 1/2" | 0.361 | 14360 ✓ | 10500 | Class A | 1.19/10-15% Excess |
| Tubing | | | | | | | |
| Liners | | | | | | | |

PACKERS

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| | | | | |
|-------------|--|--|--|---|
| Kind: | | | | OCT 15 2024 |
| Sizes: | | | | WV Department of Environmental Protection |
| Depths Set: | | | | |

John C. Strader
 STRADER GOWEN
 9/18/2024

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- 12,500 psi @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 24.35

22) Area to be disturbed for well pad only, less access road (acres): 10.46

23) Describe centralizer placement for each casing string:

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

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

See Attachment ***

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25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

| CEMENT ADDITIVES | | | | | | |
|---|---------------------------|-----------------------|-----------------------------------|----------------------------------|--------------------------------------|-------------|
| INTERVAL | SCHLUMBERGER PRODUCT NAME | BJ PRODUCT NAME | NEXTER PRODUCT NAME | PRODUCT USE | CHEMICAL NAME | CAS-Number |
| SURFACE (FRESHWATER) <small>up to 3%</small> | XXXXXXXXXX | INTEGRA SEAL | CJ600 | LOST CIRC MATERIAL | CELLOPHANE FLAKES | 9005-81-6 |
| | S001 | A-7P | 0110 | ACCELERATOR | CALCIUM CHLORIDE | 10043-52-4 |
| COAL PROTECTION <small>up to 3%</small> | XXXXXXXXXX | INTEGRA SEAL | 0600 | 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 |
| | 0047 | 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 | 55-IIW | 0880 | SURFACTANT | NONIONIC SURFACTANT | 6540-99-4 |
| | DO47 | FP 28L | XXXXXXXXXX | LIQUID ANTIFOAM AGENT | POLYPROPYLENE GLYCOL | 25322-69-4 |
| | XXXXXXXXXX | XXXXXXXXXX | OX157011 | SOLID ANTIFOAM AGENT | FULLERS EARTH(ATTAPULGITE) | 8031-18-3 |
| | XXXXXXXXXX | XXXXXXXXXX | CJ540 | HP FLUID LOSS ADDITIVE | ALIPHATICAMIDE POLYMER | PROPRIETARY |
| | 0255 | XXXXXXXXXX | XXXXXXXXXX | MED TEMP FLUID LOSS ADDITIVE | POLYACRILIC POLYMER | PROPRIETARY |
| | XXXXXXXXXX | XXXXXXXXXX | CJ213 | RETARDER | CHRYSTALLINE SILICA | 14808-60-7 |
| | XXXXXXXXXX | FL-66 | 0501 | LOW TEMP FLUID LOSS ADD | POWDERED POLYSACCHARIDE | PROPRIETARY |
| | XXXXXXXXXX | BENTONITE | CJ020 | EXTENDER | BENTONITE | 1302-78-9 |
| | D208 | ASA-301 | XXXXXXXXXX | VISCOFI FIER/ANTI-SETTLING AGENT | REFINED POLYMER/ CHRYSTALLINE SILICA | PROPRIETARY |
| | D198 | R-3 | XXXXXXXXXX | CEMENT RETARDER | LIGNIN | 8068-51-6 |
| | SUGAR | SUGAR | CJ795 | CEMENT RETARDER | SUCROSE | 57-50-1 |
| | D065 | XXXXXXXXXX | XXXXXXXXXX | DISPERSANT | SODIUM POLYNAPHTHALENE SULFONATE | 8068-51-6 |
| D800 | XXXXXXXXXX | XXXXXXXXXX | CEMENT RETARDER (Mid-Temperature) | SODIUM LIGNOSULFONATE | 8061-51-6 | |

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Southwestern Energy Company

Proposed Drilling Program

Well: ROTH OHI 406
 Field: PANHANDLE FIELD - WET
 County: OHIO
 SHL (NAD83): 40.151219 Latitude -80.687010 Longitude
 BHL (NAD83): 40.108063 Latitude -80.673397 Longitude
 KB Elev: 1,030 ft MSL KB Height: 26 ft AGL

Drilling Rig: SDC 40
 Formation: Marcellus Shale
 State: WV
 GL Elev: 1,004 ft MSL



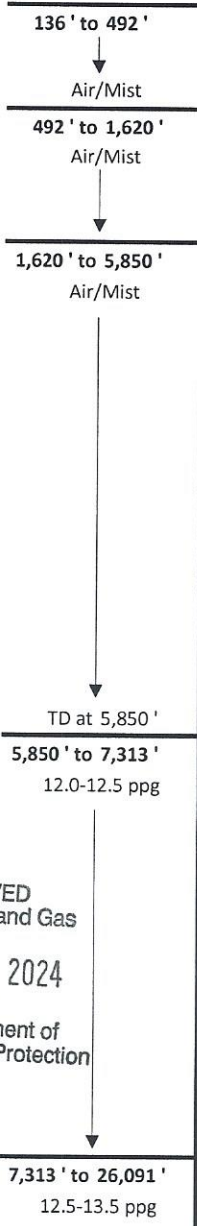
COAL VOID EXPECTED

PROD TOC @ 1,600' MD

| TUBULAR DETAIL | | | | | |
|----------------|------------------|--------------|-------------|------------------|---------|
| Casing String | Casing Size (in) | Weight (Min) | Grade (Min) | Planned Interval | |
| | | | | From | To |
| Conductor | 20 | 94.0 # | J-55 | 0' | 136' |
| Surface/Coal | 13.375 | 54.4 # | J-55 | 0' | 472' |
| Intermediate | 9.625 | 36.0 # | J-55 | 0' | 1,600' |
| Production | 5.5 | 20.0 # | P-110 HP | 0' | 26,091' |

CEMENT DETAIL

| | Sacks | Class | Density |
|--------------|-------|-------|-----------|
| Conductor | 173 | A | 19.3 |
| Surface | 538 | A | 15.6 |
| Intermediate | 634 | A | 15.6 |
| Production | 4972 | A | 14.5-15.0 |



KOP at 5,850' MD

Freshwater Depth - 422' TVD
 Coal Void Depth - 196' TVD
 Saltwater Depth - 1,119' TVD
 TVD - 5,773'
 TMD - 26,091'

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5,620' TVD Target Center

TD at 26,091' MD
5,773' TVD

LP at 7,313' MD

SHL Onondaga 5,644' TVD

Onondaga 5,797' TVD

7,313' to 26,091'
12.5-13.5 ppg

Created by: Colin Kollker on 09/05/2024

*State Game STRADER GOWER
9/18/2024*

WW-9
(4/16)

4706900373

API Number 47 - 069 - _____
Operator's Well No. Roth OHI 406H

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 Tiltonville

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

Additives to be used in drilling medium? Attachment 3B

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

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

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

Apex Sanitary Landfill 06-08438, Brooke Co SWF-1013, FMS 353100

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 Staff Regulatory Specialist

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WV Department of
Environmental Protection

Subscribed and sworn before me this 5 day of Sept, 2024

Elizabeth Blankenship Notary Public

My commission expires 6/23/2029



SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 24.35 Prevegetation pH

Lime as determined by pH test min.2 Tons/acre or to correct to pH 10.46

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: STRADER GOWER [Signature]

Comments:

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Title: Oil & Gas Inspector Date: 9/18/2024

Field Reviewed? (X) Yes () No

August 30, 2024

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

RE: Proposed New Well: Roth OHI 406H

Dear Mr. Brewer:

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

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

Thank you.

Sincerely,



Brittany Woody
Staff Regulatory Specialist
Southwestern Energy Production Company, LLC

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11/22/2024

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

API NO. 47-XXX-XXXXX
WELL NAME: Roth OHI 406H
Tiltonsville QUAD
Richland DISTRICT
OHIO COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody

Date: 8/30/2024

Brittany Woody

Title: Staff Regulatory Specialist

SWN Production Co., LLC

Approved by:

Name: STRADER GOWER

Date: 9/18/2024

Title: Oil & Gas Inspector

Approved by:

Name: _____

Date: _____

Title: _____

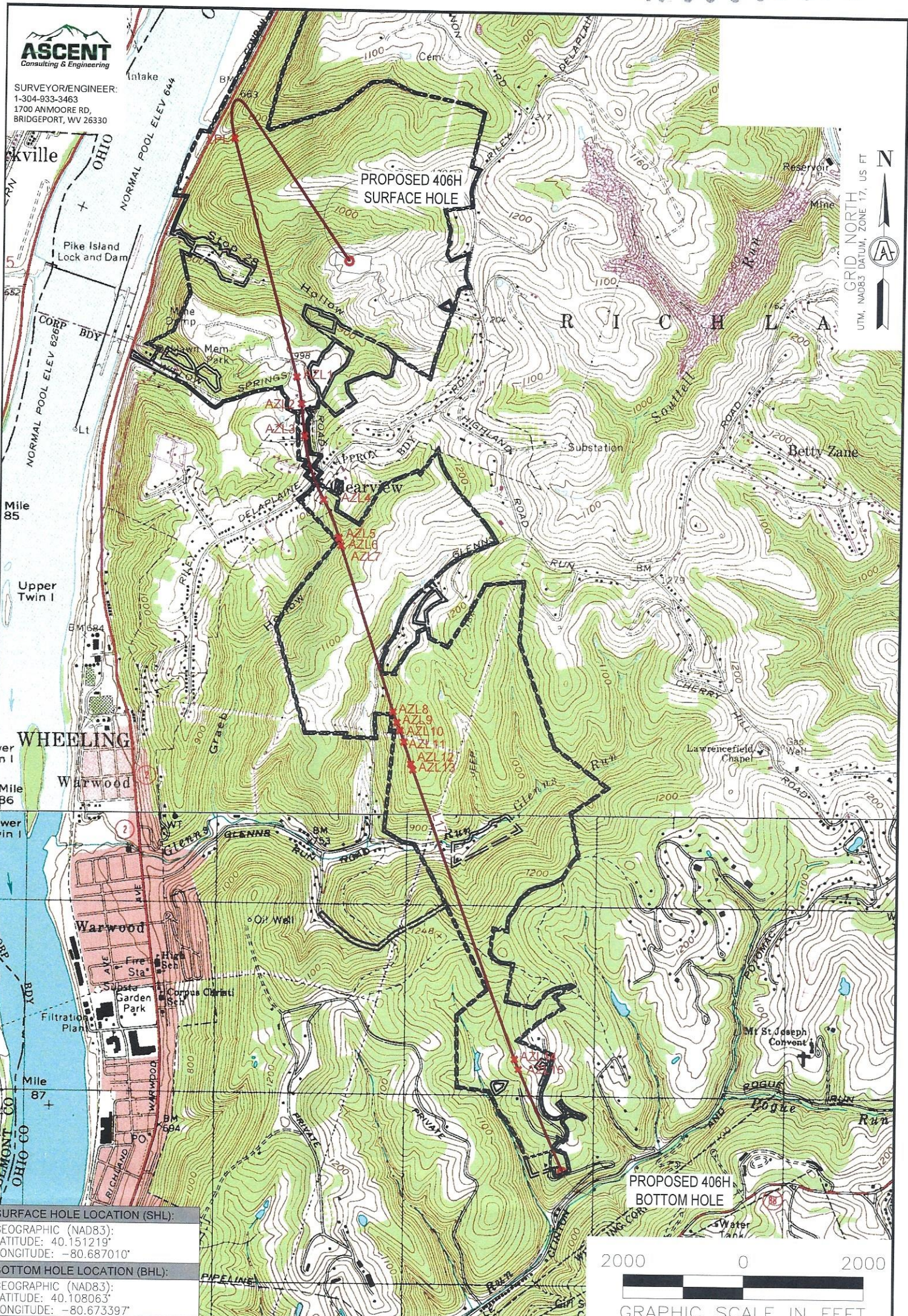
SWN PRODUCTION COMPANY, LLC – CONFIDENTIAL

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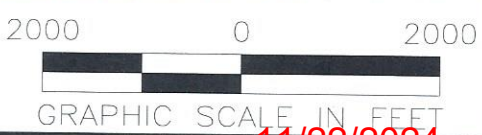
SURVEYOR/ENGINEER:
1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330



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

SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.151219°
LONGITUDE: -80.687010°

BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.108063°
LONGITUDE: -80.673397°



11/22/2024

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.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

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

WELL OPERATOR:
SWN PRODUCTION COMPANY, LLC

ADDRESS:
1300 FORT PIERPONT DRIVE, SUITE 201

SURFACE OWNER:
ROTH FARMS, LLC

| | | | |
|---|------------------------|------------------------------|-------------------------|
| WELL (FARM) NAME: ROTH OHI | | WELL # 406H | SERIAL # XXXX |
| COUNTY OHIO | - CODE - 069 | DISTRICT; RICHLAND | |
| USGS 7 1/2 QUADRANGLE MAP NAME TILTONVILLE 7.5', OH | | | |

LATITUDE: 40°10'00"

SURFACE HOLE 5,685'

BOTTOM HOLE 1,882'



SURVEYOR/ENGINEER: 1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

| LINE | BEARING | DISTANCE | DESCRIPTION | MONUMENT |
|------|---------------|-----------|-----------------|-----------------|
| L1 | N 71°25'59" E | 1,784.95' | SHL TO MONUMENT | 5/8" IRON REBAR |
| L2 | N 88°41'13" E | 1,721.69' | SHL TO MONUMENT | 1" IRON PIPE |

SURFACE HOLE LOCATION (SHL):

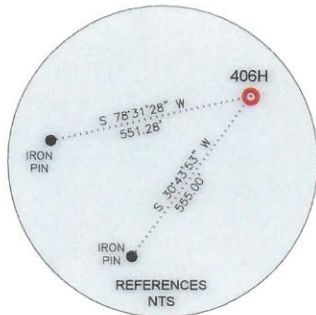
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,444,588.206
EASTING: 526,657.710

LANDING POINT (LPL):

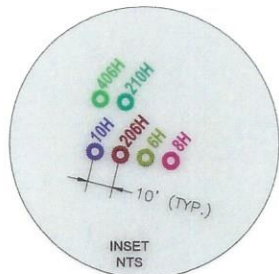
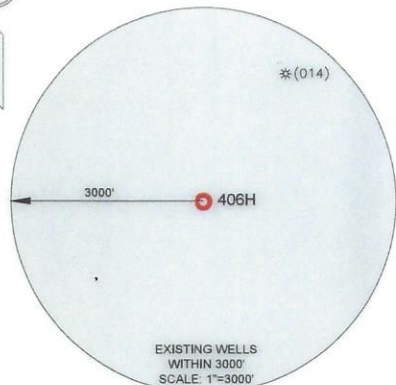
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,445,221.740
EASTING: 526,046.996

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,439,802.340
EASTING: 527,834.737



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



| LINE | BEARING | DISTANCE | CURVE LENGTH | DESCRIPTION |
|------|---------------|-----------|--------------|----------------|
| L3 | N 43°56'57" W | 2,887.02' | 4100.80' | SHL TO LPL |
| L4 | S 15°22'23" E | 4,248.22' | 4,248.22' | LPL TO AZL1 |
| L5 | S 10°41'11" E | 467.93' | 468.43' | AZL1 TO AZL2 |
| L6 | S 05°59'59" E | 559.77' | 559.77' | AZL2 TO AZL3 |
| L7 | S 17°32'42" E | 1,147.84' | 1,155.64' | AZL3 TO AZL4 |
| L8 | S 22°23'14" E | 703.40' | 705.01' | AZL4 TO AZL5 |
| L9 | S 15°22'15" E | 10.00' | 10.00' | AZL5 TO AZL6 |
| L10 | S 16°43'52" E | 135.82' | 135.82' | AZL6 TO AZL7 |
| L11 | S 18°05'24" E | 2,998.72' | 2,998.72' | AZL7 TO AZL8 |
| L12 | S 20°02'46" E | 195.38' | 195.41' | AZL8 TO AZL9 |
| L13 | S 22°00'03" E | 149.94' | 149.94' | AZL9 TO AZL10 |
| L14 | S 19°53'46" E | 210.33' | 210.38' | AZL10 TO AZL11 |
| L15 | S 17°47'22" E | 402.26' | 402.26' | AZL11 TO AZL12 |
| L16 | S 18°52'10" E | 107.97' | 107.98' | AZL12 TO AZL13 |
| L17 | S 19°57'04" E | 5,297.75' | 5,297.75' | AZL13 TO AZL14 |
| L18 | S 21°48'38" E | 187.92' | 187.95' | AZL14 TO AZL15 |
| L19 | S 23°40'07" E | 1,935.38' | 1,935.38' | AZL15 TO BHL |

WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 100 FEET OF LIMITS OF DISTURBANCE.
- NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

NOTES ON SURVEY

- 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.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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



P.S. 983

COMPANY: **SWN** **SWN** Production Company, LLC Production Company™

| | | |
|---|--|--|
| (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034 | MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT) | OPERATOR'S WELL #: ROTH OHI 406H API WELL #: 47 069 00373 <small>STATE COUNTY PERMIT</small> |
|---|--|--|

| | |
|---|---------------------------------------|
| WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input checked="" type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input type="checkbox"/> | ELEVATION: 1,004.0' |
| WATERSHED: UPPER OHIO-WHEELING | QUADRANGLE: TILTONSVILLE 7.5', OH |
| DISTRICT: RICHLAND COUNTY: OHIO | ACREAGE: ±118.93 |
| SURFACE OWNER: ROTH FARMS, LLC | ACREAGE: ±118.93 |
| OIL & GAS ROYALTY OWNER: ROTH FARMS, LLC | |
| DRILL <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> | |
| CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY) 11/22/2024 | ESTIMATED DEPTH: 5,773 TVD 26,091 TMD |

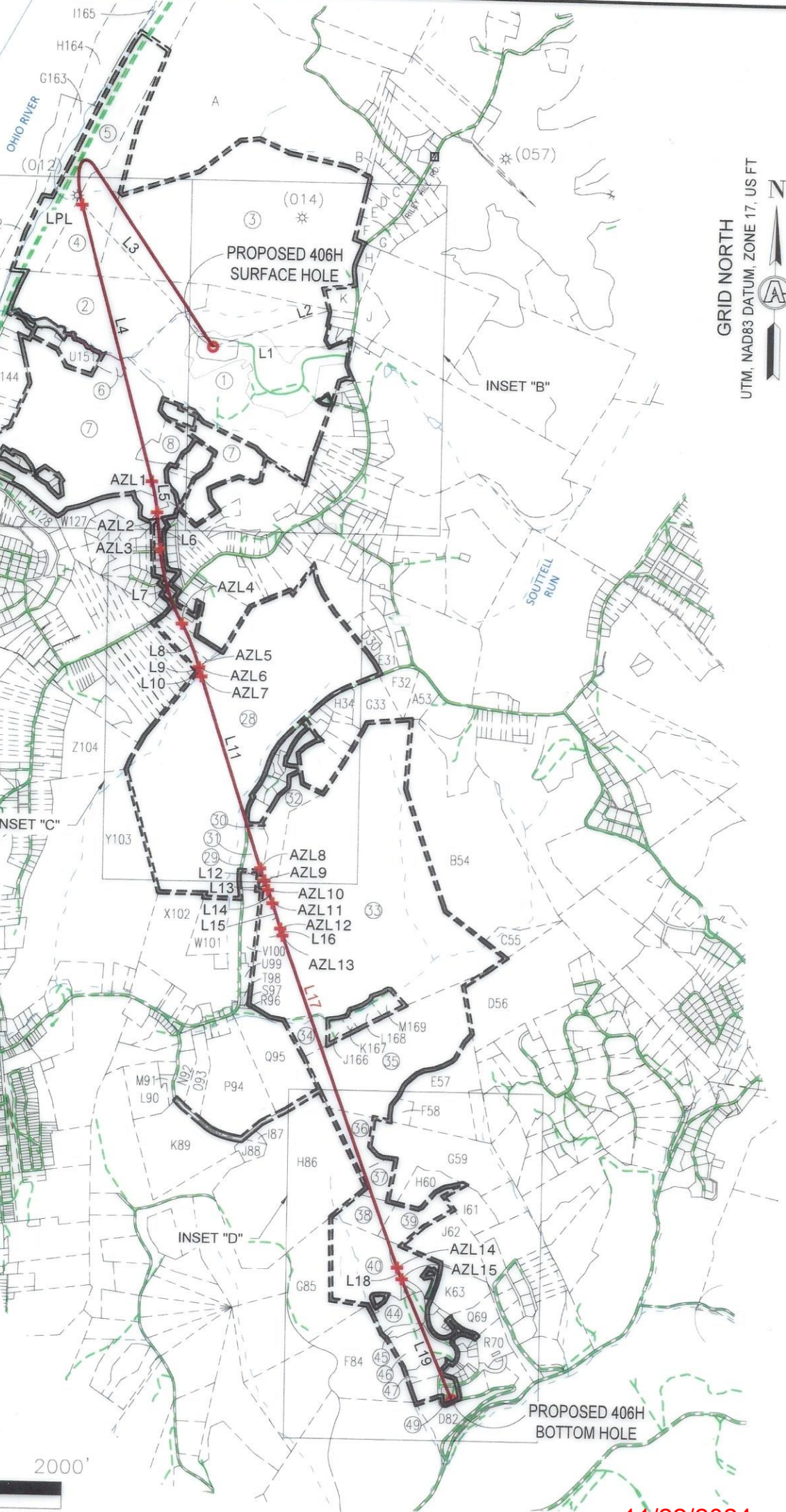
| | |
|--|--|
| WELL OPERATOR: SWN PRODUCTION COMPANY, LLC | DESIGNATED AGENT: BRITTANY WOODY |
| ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 | ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 |
| CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 | CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 |

| | |
|--|---|
| LEGEND: PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD LPL: LANDING POINT LOCATION EXISTING WATER WELL EXISTING SPRING SURVEYED BOUNDARY DRILLING UNIT LEASE BOUNDARY PROPOSED PATH | REVISIONS: DATE: 09-04-2024 DRAWN BY: TMF SCALE: 1" = 2000' DRAWING NO: ACE-2598 WELL LOCATION PLAT 1 |
|--|---|



SURVEYOR/ENGINEER:
1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

INSET "A"



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



11/22/2024

REVISIONS: 4706900373

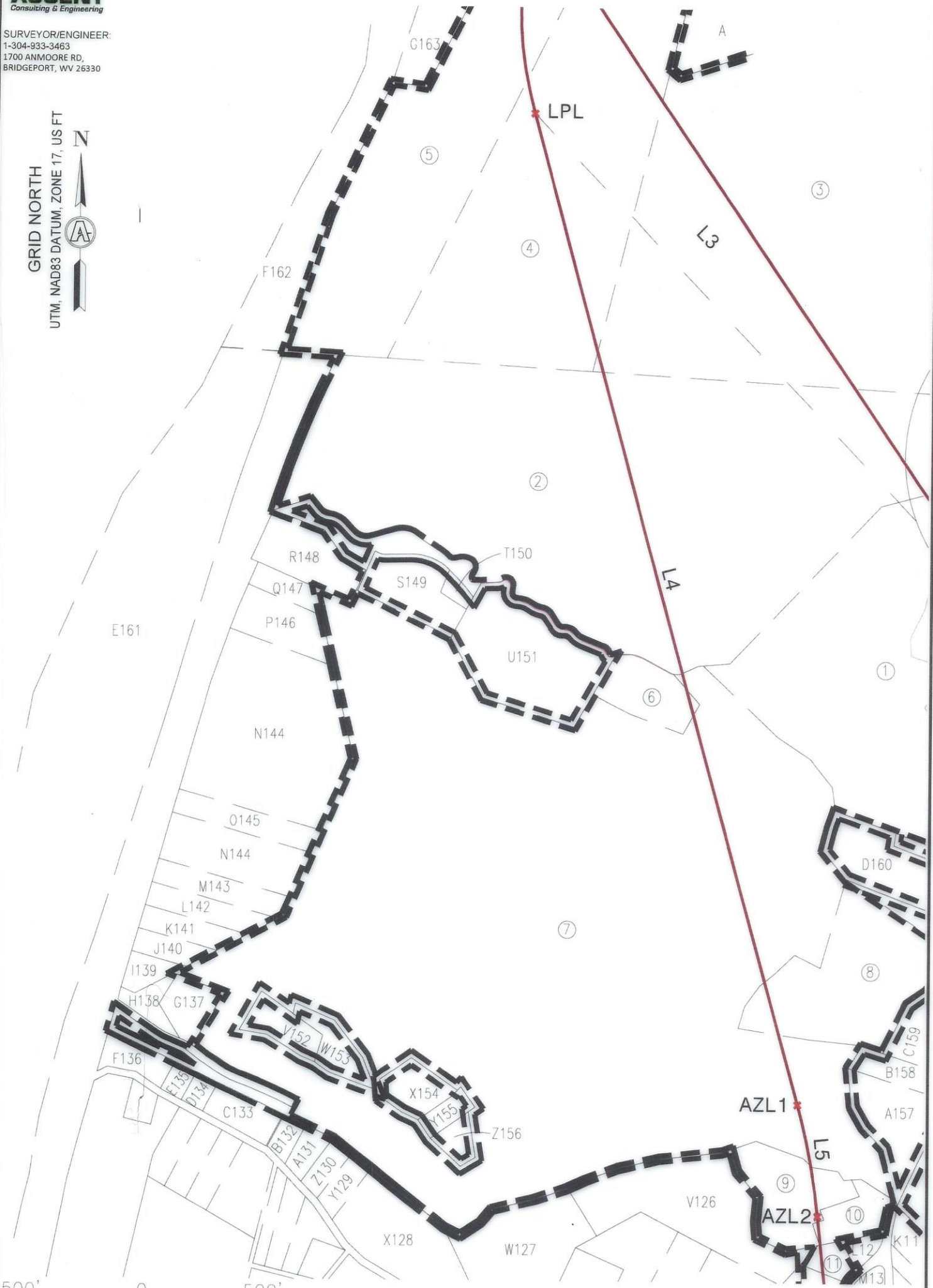
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|----------------------|---------|----------------------|------------|
| COMPANY: | | | |
| OPERATOR'S | | ROTH OHI | |
| WELL #: | | 406H | |
| DISTRICT: | COUNTY: | STATE: | DATE: |
| RICHLAND | OHIO | WV | 09-04-2024 |
| DRAWN BY: TMF | | SCALE: 1"=2000' | |
| DRAWING NO: ACE-2598 | | WELL LOCATION PLAT 2 | |



SURVEYOR/ENGINEER:
1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

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



INSET "A"

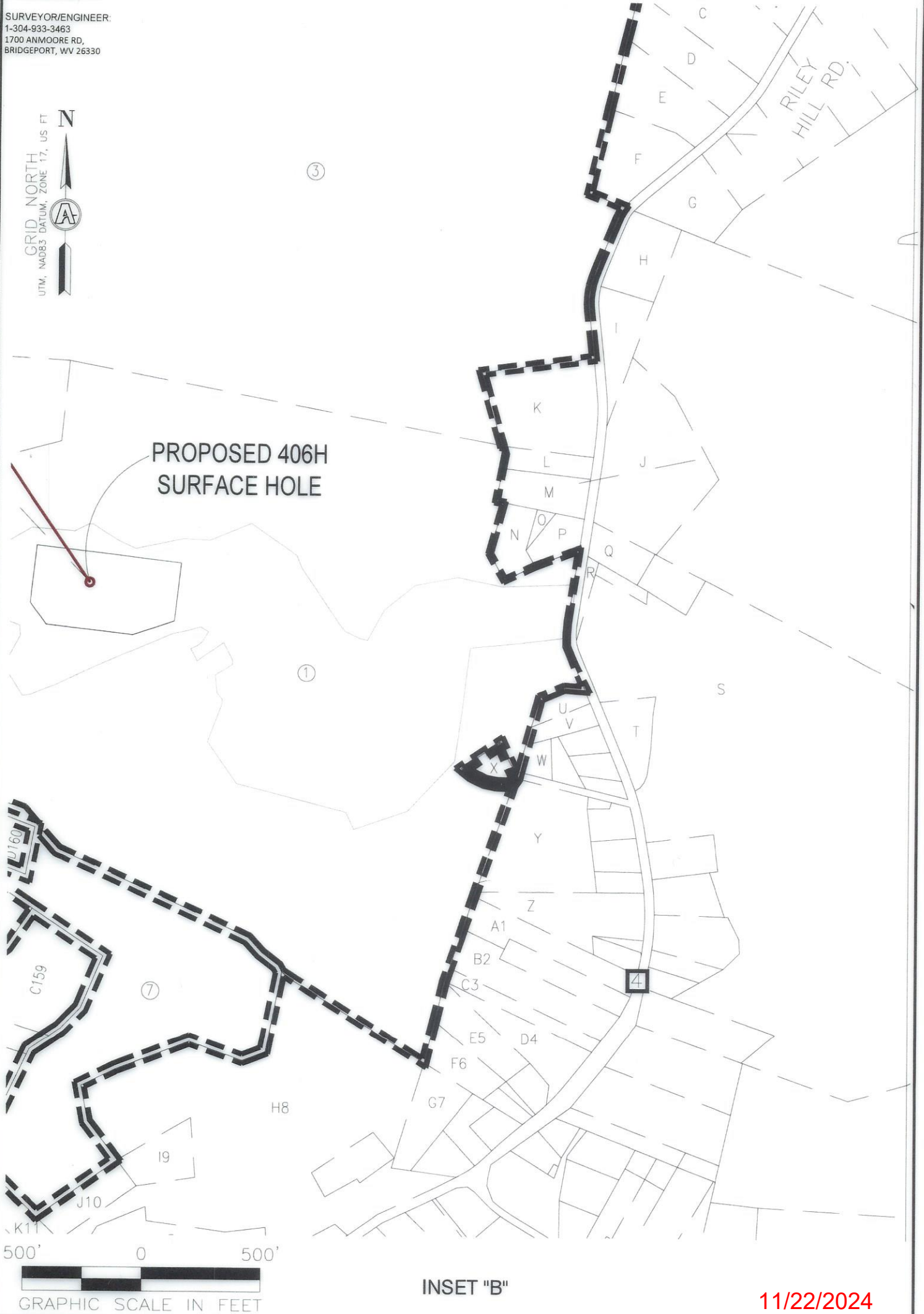
11/22/2024

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| REVISIONS: 47 069 00373 |
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|----------------------|---------|----------------------|------------|
| COMPANY: | | | |
| OPERATOR'S | | ROTH OHI | |
| WELL #: | | 406H | |
| DISTRICT: | COUNTY: | STATE: | DATE: |
| RICHLAND | OHIO | WV | 09-04-2024 |
| DRAWN BY: TMF | | SCALE: 1"=500' | |
| DRAWING NO: ACE-2598 | | WELL LOCATION PLAT 3 | |



SURVEYOR/ENGINEER:
1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330



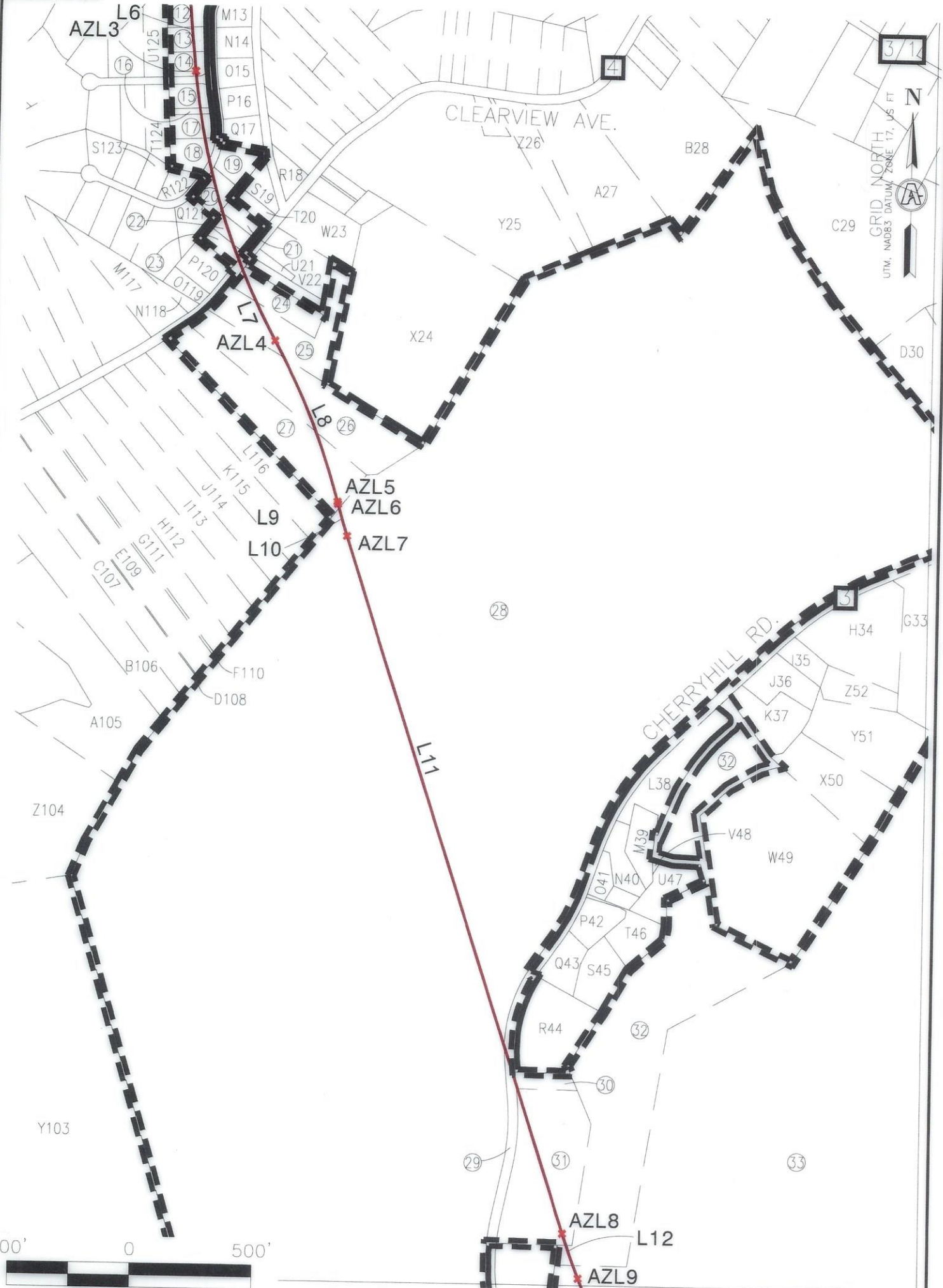
INSET "B"

11/22/2024

| | | | | |
|--|--|--------------|---|--|
| REVISIONS: 47069 00373 | COMPANY: SWN Production Company, LLC | | SWN ^{R-V+} Production Company™ | |
| | OPERATOR'S: ROTH OHI | | DATE: 09-04-2024 | |
| | WELL #: 406H | | DRAWN BY: TMF | |
| | DISTRICT: RICHLAND | COUNTY: OHIO | STATE: WV | SCALE: 1"=500' DRAWING NO: ACE-2598 WELL LOCATION PLAT 4 |



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330



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



INSET "C"

11/22/2024

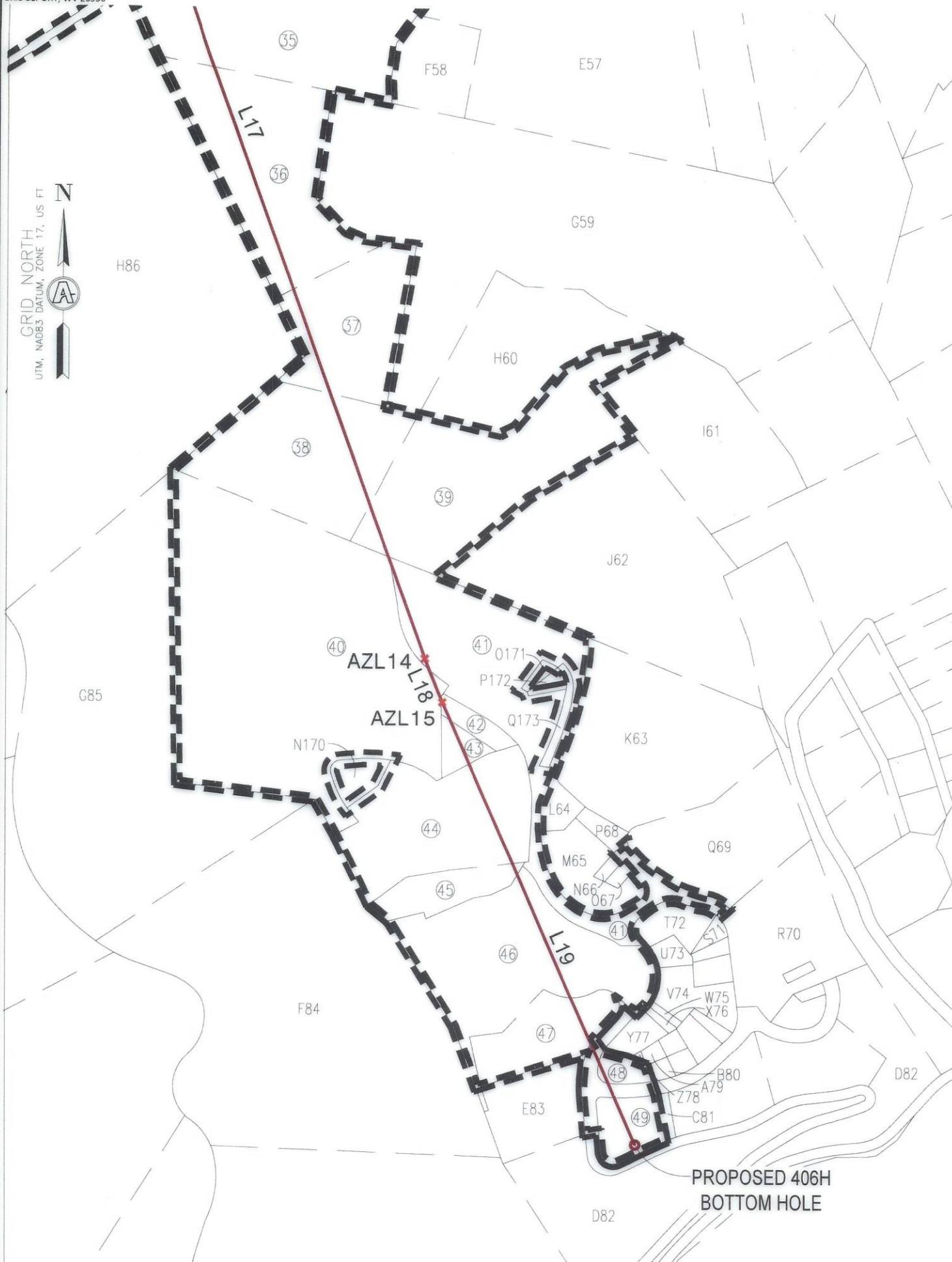
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| REVISIONS: 4706900373 |
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|----------------------|---------|----------------------|------------|
| COMPANY: | | | |
| OPERATOR'S | | ROTH OHI | |
| WELL #: | | 406H | |
| DISTRICT: | COUNTY: | STATE: | DATE: |
| RICHLAND | OHIO | WV | 09-04-2024 |
| DRAWN BY: TMF | | SCALE: 1"=500' | |
| DRAWING NO: ACE-2598 | | WELL LOCATION PLAT 5 | |



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330

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



PROPOSED 406H
 BOTTOM HOLE



INSET "D"

11/22/2024

| | | | |
|-------------------------|--------------|------------------|----------------------|
| REVISIONS: 42 069 00373 | | COMPANY: | |
| OPERATOR'S: ROTH OHI | | DATE: 09-04-2024 | |
| WELL #: 406H | | DRAWN BY: TMF | |
| DISTRICT: RICHLAND | COUNTY: OHIO | STATE: WV | SCALE: 1"=500' |
| | | | DRAWING NO: ACE-2598 |
| | | | WELL LOCATION PLAT 6 |



SURVEYOR/ENGINEER:
1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

| WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS | | |
|--|--|------------------|
| TRACT | SURFACE OWNER (S)/ROYALTY OWNER (R) | TAX PARCEL |
| 1 | ROTH FARMS, LLC (S)/ROTH FARMS, LLC (R) | 4-R7-24 |
| TRACT | SURFACE OWNER (S) | TAX PARCEL |
| 2 | EDGE BRUCE W | 4-R7-23 |
| 3 | MCCLURE WM H & MARG A | 4-R4-7 |
| 4 | DONOHEW WILLIAM SCOTT & LAURA | 4-R4-2.4 |
| 5 | STATE OF WV, DEPARTMENT OF TRANSPORTATION | WARWOOD AVENUE |
| 6 | HARTFILE GARY L- TOD | 4-R7-20 |
| 7 | CITY OF WHEELING | 4-R7-18 |
| 8 | FLUHARTY MICHAEL AND BRENDA K | 4-R7-17 |
| 9 | ROWND DENISE & DANIEL T III | 4-R7-14 |
| 10 | ROWND DENISE A ROWND DANIEL THOMPSON III | 4-R7-14.1 |
| 11 | UTTERMOHLEN JAMES VINCENT & ALINA DOLORES UTTERMOHLEN | 2-CV7A-8 |
| 12 | JOHNSON TIMOTHY P & CRYSTAL J | 2-CV7A-7 |
| 13 | RATCLIFFE LINDA L & RATCLIFFE RUSSELL B ESTATE | 2-CV7A-6 |
| 14 | EMILY MARCY J | 2-CV7A-5 |
| 15 | DALLY ANDREW RAY | 2-CV7A-30 |
| 16 | DALLY ANDREW RAY | 2-CV7A-30.1 |
| 17 | LEOS JAMES JOHN III | 2-CV7A-29 |
| 18 | MCCORMICK TIMOTHY P - TOD | 2-CV7A-28 |
| 19 | TOEPFER MICHAEL & MADONNA ANNE | 2-CV7A-15 |
| 20 | HOSEY RONALD AND DAWN | 2-CV7A-16 |
| 21 | NODURFT GREGORY P & MICHELLE | 2-CV3-1 |
| 22 | WOLFE CHARLES | 2-CV6-14 |
| 23 | GARRISON NICOLE L | 2-CV6-13.1 |
| 24 | NICKERSON ARTHUR J & D L | 2-CV6-17 |
| 25 | STRITTMATTER BRENT J & STRITTMATTER AMY L | 2-CV6-18 |
| 26 | STEWART LOGAN G & ALICIA D | 2-CV6-19 |
| 27 | HLAD DOUGLAS M & LISA ANN | 2-CV6-20 |
| 28 | WARWOOD LAND CO LLC | 4-R7-31 |
| 29 | STATE OF WV, DEPARTMENT OF TRANSPORTATION | Cherry Hill Road |
| 30 | BROOKS WILLIAM S C/O WESBANCO TRUST | 4-R10-27.1 |
| 31 | SUNSHINE STATE INV GROUP LLC | 4-R10-28 |
| 32 | JOHNSON JOHN | 4-R10-29 |
| 33 | MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC | 4-R10-31 |
| 34 | MURRAY SANDRA | 4-R10-42 |
| 35 | GOLDEN CHRISTOPHER SCOTT & GOLDEN BRANDACE LYNN | 4-R11-2.4 |
| 36 | DOYLE DANIEL T & LUCINDA E | 4-R11-2.12 |
| 37 | LOWE JEREMY J & AMANDA L | 4-R11-2.11 |
| 38 | LOWE JEREMY J & AMANDA L | 4-R11-2.6 |
| 39 | CUSACK JOHN L & TAMMIE L | 4-R11-2.9 |
| 40 | SANTORINE LORA KAY & SANTORINE ADOLPH W JR | 4-R14A-24 |
| 41 | COX C NOLAN | 4-R14A-25 |
| 42 | DUFF FRANK X & DEBORAH M | 4-R14A-69.1 |
| 43 | DUFF FRANK X & DEBORAH M | 4-R14A-69 |
| 44 | DUFF FRANCIS X & D M | 4-R14A-71 |
| 45 | DUFF FRANCIS X & D M | 4-R14A-53.2 |
| 46 | EXLEY R BANFORD & T L | 4-R14A-111 |
| 47 | KIDD JOHN M | 4-R14A-210 |
| 48 | KIDD JOHN M | 4-R14A-183 |
| 49 | MAIN STREET BANK CORP | 4-R14E-5 |

11/22/2024

| | | | | |
|------------------------|------------|---------|----------|----------------------|
| REVISIONS: 47069 00373 | COMPANY: | | | |
| | OPERATOR'S | | ROTH OHI | |
| | WELL #: | | 406H | |
| | DISTRICT: | COUNTY: | STATE: | DATE: 09-04-2024 |
| | RICHLAND | OHIO | WV | DRAWN BY: TMF |
| | | | | SCALE: 1"=2000' |
| | | | | DRAWING NO: ACE-2598 |
| | | | | WELL LOCATION PLAT 7 |



SURVEYOR/ENGINEER:
1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

| ADJOINING OWNERS TABLE | | |
|------------------------|--|------------|
| TRACT | SURFACE OWNER (S) | TAX PARCEL |
| A | HEART 2 HEART VOLUNTEERS INC | 4-R4-5 |
| B | BOYD ROBERT JEFFREY & CHERYL L | 4-R5-24 |
| C | OLEJASZ JOSEPH R JR | 4-R5-34 |
| D | OLEJASZ JOSEPH R JR | 4-R5-35 |
| E | KUCERA CARL J & SHARON L | 4-R5-35.2 |
| F | PAVELICH-SWIGER SHERRI J & PAVELICH JEFFREY M | 4-R5-35.1 |
| G | WEIGAND PAUL & REBECCA FAMILY TRUST | 4-R5-40.1 |
| H | SCHELL RICHARD A & N | 4-R8-1.1 |
| I | HABERFIELD WAYNE K & D A | 4-R8-1 |
| J | SCHUETZ EBBIE JOSEPH & JOY | 4-R8-3 |
| K | MCCLURE WM H & MARGARET A | 4-R7-26.1 |
| L | LEFKAY SCOTT A & TRACY L | 4-R8-2.3 |
| M | FELDNER CHARLENE M - TOD | 4-R8-2.1 |
| N | CALDWELL SHANE J & CALDWELL SUZANNE M | 4-R7-24.1 |
| O | CALDWELL SUZANNE & SHANE | 4-R7-24.2 |
| P | OLEJASZ JR JOSEPH R & OLEJASZ J R SR & G (RT-OCC) | 4-R8-2.2 |
| Q | MCKEE JAMES F JR & EILEEN B | 4-R8-4.14 |
| R | MCKEE JAMES F JR & EILEEN B | 4-R8-77 |
| S | TUNNEL RIDGE LLC | 4-R8-4.18 |
| T | BAKER FAMILY RESIDENCE TRUST; STEVEN P BAKER (LE) | 4-R8-4 |
| U | KUCERA LISA A | 4-R8-4.8 |
| V | HELDEFFER GEORGE W | 4-R8-4.7 |
| W | CAMPBELL ALLEN B | 4-R8-4.9 |
| X | CALDWELL SHANE AND SUZANNE | 4-R8-78 |
| Y | CLARK JOHN M & B C | 4-R8-4.10 |
| Z | CLEGG R E & J L | 2-CV1-5 |
| A1 | TOMAC ROBERT C JR | 2-CV1-4 |
| B2 | ROGERSON KAREN S | 2-CV1-2 |
| C3 | SHEARER PHILLIP G & CINDY M | 2-CV1-1 |
| D4 | QUINN JOHN THOMAS | 2-CV4-7 |
| E5 | QUINN THOMAS F & SUE ANN TAYLOR | 2-CV4-7.4 |
| F6 | BENNER SUZANNE J & JAMES T BENNER | 2-CV4-7.5 |
| G7 | FEDORKE AARON P & FEDORKE RACHEL SUE | 2-CV4-4.1 |
| H8 | FEDORKE AARON P & TIMOTHY J | 2-CV4-3 |
| I9 | FEDORKE TIMOTHY JOSEPH | 4-R7-37 |
| J10 | BIEGA FRANK & CONNIE | 4-R7-27.2 |
| K11 | STOEHR RONALD J & MARIE G- TOD | 2-CV3-4.7 |
| L12 | UTTERMOHLEN JAMES VINCENT & ALINA DOLORES UTTERMOHLEN | 2-CV7A-9 |
| M13 | LAWSON ERIC C ET AL LAWSON ARLENE J (LIFE EST) | 2-CV7A-10 |
| N14 | SECRETARY OF VETERANS AFFAIRS | 2-CV7A-11 |
| O15 | SENGEWALT STACEY M & JEFFREY R | 2-CV7A-12 |
| P16 | SENGEWALT STACEY M & JEFFREY R | 2-CV7A-13 |
| Q17 | VALENTINE DAVID M | 2-CV7A-14 |
| R18 | ENGLISH DUSTIN D | 2-CV3-4.1 |
| S19 | MAYLES TIMOTHY; MAYLES HARRY & MAYLES DOUGLAS | 2-CV3-3 |
| T20 | MAYLES TIMOTHY; MAYLES HARRY & MAYLES DOUGLAS | 2-CV3-2 |
| U21 | BEHRENS JAMES M | 2-CV6-15.3 |
| V22 | BARBE FAMILY TRUST; M BARBE & D A LENNOX TRUSTEES | 2-CV6-15.2 |
| W23 | DANHART LISA; BONNIE; & SELLER CAROL | 2-CV6-15 |
| X24 | SZALAY FRANCIS E & PL | 2-CV3-13.1 |
| Y25 | MYERS WILBERT E III & J S | 2-CV3-13 |
| Z26 | KLEIN JACK W JR & BRENDA J-TOD | 2-CV4-22.1 |
| A27 | MURRAY BRYAN M AND JOAN C | 2-CV4-22 |
| B28 | PAVLIK NICHOLAS D AND GLORIA K | 2-CV4-21.2 |
| C29 | HESTIA LLC | 4-R8-65.1 |
| D30 | GLENN VIEW LIMITED PARTNERSHIP | 4-R8-65.4 |
| E31 | GLENN VIEW LIMITED PARTNERSHIP | 4-R8-68 |
| F32 | MEREDITH DONALD R II AND JULIE | 4-R8-69.1 |
| G33 | MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC | 4-R8-70 |

*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/22/2024

REVISIONS: 4706900373

COMPANY:

SWN
Production Company, LLC

SWN ^{R-V+}_A
Production Company™

OPERATOR'S ROTH OHI

WELL #: 406H

DISTRICT:
RICHLAND

COUNTY:
OHIO

STATE:
WV

DATE: 09-04-2024

DRAWN BY: TMF

SCALE: N/A

DRAWING NO: ACE-2598

WELL LOCATION PLAT 8



SURVEYOR/ENGINEER:
1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

| ADJOINING OWNERS TABLE | | |
|------------------------|---|--------------|
| TRACT | SURFACE OWNER (S) | TAX PARCEL |
| H34 | CASTILOW CHET | 4-R7-34 |
| I35 | STEVEN JOHNSON LEWIS ET AL | 4-R7-33 |
| J36 | JOHNSON STEVEN LEWIS ET AL | 4-R7-32 |
| K37 | SCHMALZ ANGELA | 4-R7-36 |
| L38 | JOHNSON JOHN LLOYD | 4-R7-39 |
| M39 | BURTRAND GARY E & T L | 4-R10-22.1 |
| N40 | KYLE CHAD J & E A | 4-R10-22 |
| O41 | NEWLAND DARRELL L | 4-R10-22.3 |
| P42 | BROST RICHARD | 4-R10-24.1 |
| Q43 | WILSON CINDY L P & DANIEL-TOD | 4-R10-26 |
| R44 | ERNEST RICHARD H JR & A L | 4-R10-27 |
| S45 | MCCRACKEN ROBERT W | 4-R10-25 |
| T46 | LASH MARTHA J | 4-R10-24 |
| U47 | BEABOUT EARL T JR & L L | 4-R10-23 |
| V48 | BURTRAND GARY E & T L | 4-R10-23.1 |
| W49 | MCLAUGHLIN HENRY J III | 4-R10-29.1 |
| X50 | JOHNSON STEVEN L & D T | 4-R7-36.1 |
| Y51 | PAVELICH HUNTER M | 4-R7-35 |
| Z52 | CASTILOW CHET | 4-R7-34.1 |
| A53 | MEREDITH DONALD R II AND J K | 4-R8-69.3 |
| B54 | MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC | 4-R8-52 |
| C55 | MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC | 4-R11-11 |
| D56 | PENN HOLDING LIMITED LIABILITY COMPANY | 4-R11-6.3 |
| E57 | GOLDEN CHRISTOPHER SCOTT BRANDACE LYNN | 4-R11-2.13 |
| F58 | DEFELICE LESLIE PAUL | 4-R11-2.7 |
| G59 | DOYLE DANIEL T | 4-R11-2.2 |
| H60 | SCHAFER ROY ALVIN JR & CAROLYN MARY SCHAFER | 4-R11-2.10 |
| I61 | DOYLE MATTHEW M & CHRISTINE M | 4-R11-2.5 |
| J62 | MULL ELLEN CLARICE ET AL | 4-R11-1 |
| K63 | WOLFE AARON T & MICHELLE R | 4-R14A-53.6 |
| L64 | CONSTANTIN THOMAS E & ELIZABETH K | 4-R14A-53.5 |
| M65 | PETRI JOSEPH L JR | 4-R14A-53.1 |
| N66 | PETRI JOSEPH L JR | 4-R14A-139 |
| O67 | PETRI JOSEPH L JR | 4-R14A-139.1 |
| P68 | PETRI JOSEPH L JR | 4-R14A-53.8 |
| Q69 | HEARNE WILLIAM H III & C N | 4-R14A-53.4 |
| R70 | KENNEN ROBERT D & DELILAH L KENNEN - TOD | 4-R14A-53.7 |
| S71 | HEARNE WILLIAM H III & C N | 4-R14A-169 |
| T72 | HEARNE WILLIAM H III & C N | 4-R14A-163 |
| U73 | FAMILY 9/7/11 IRREVOCABLE TRUST | 4-R14A-189 |
| V74 | FAMILY 9/7/11 IRREVOCABLE TRUST | 4-R14A-186 |
| W75 | FAMILY 9/7/11 IRREVOCABLE TRUST | 4-R14A-185 |
| X76 | KIDD JOHN M | 4-R14A-185.1 |
| Y77 | KIDD JOHN M | 4-R14A-184 |
| Z78 | KIDD JOHN M & BONNIE L | 4-R14A-183.1 |
| A79 | KIDD JOHN M | 4-R14A-181 |
| B80 | KIDD JOHN M | 4-R14A-181.1 |
| C81 | JOSEPH ELIAS | 4-R14E-6 |
| D82 | SUNSHINE STATE INV GROUP LLC | 4-R14A-53 |
| E83 | ADAMS JAMES C & MELISSA S | 4-R14E-1 |
| F84 | HUPP SARA | 4-R13-1.14 |
| G85 | GRIMES THOMAS B TRUSTEE THE ARCHIE TODD HUPP IV | 4-R13-1.15 |
| H86 | MULL ELLEN CLARICE ET AL | 4-R10-44.1 |
| I87 | PRATHER TYLER D | 4-R10-44.2 |
| J88 | PRATHER TYLER D | 4-R10-44 |
| K89 | MYERS WILBERT E III | 4-R10-2 |
| L90 | PRATHER TYLER D | 4-R10-3 |
| M91 | WADDELL DONALD L & D J | 4-R10-4 |

*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/22/2024

REVISIONS: 47069 00373

COMPANY:

SWN
Production Company, LLC

SWN ^{REV+}_A
Production Company™

OPERATOR'S ROTH OHI

WELL #: 406H

DISTRICT:
RICHLAND

COUNTY:
OHIO

STATE:
WV

DATE: 09-04-2024

DRAWN BY: TMF

SCALE: N/A

DRAWING NO: ACE-2598

WELL LOCATION PLAT 9



SURVEYOR/ENGINEER:
1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

| ADJOINING OWNERS TABLE | | |
|------------------------|---|-------------|
| TRACT | SURFACE OWNER (S) | TAX PARCEL |
| N92 | ASSARO ANTHONY L & S L | 4-R10-43.4 |
| O93 | ASSARO ANTHONY L & S L | 4-R10-43.3 |
| P94 | NORTH FORK LANDFILL INC | 4-R10-43.1 |
| Q95 | NORTH FORK LANDFILL INC C/O SUSAN SARKIS | 4-R10-41 |
| R96 | NORTH FORK LANDFILL INC C/O SUSAN SARKIS | 4-R10-41.1 |
| S97 | NORTH FORK LANDFILL INC C/O SUSAN SARKIS | 4-R10-39.1 |
| T98 | IAFRATE DAVID A | 4-R10-39 |
| U99 | MCCARDLE STANLEY M JR & M | 4-R10-36 |
| V100 | MCCARDLE STANLEY M JR & M | 4-R10-35 |
| W101 | BREIDING JOSHUA D & SARAH N | 4-R10-20 |
| X102 | SARKIS SJ; ROHRIG RF; ROHRIG JR; ROHRIG RF TTEE | 4-R10-19 |
| Y103 | NORTH FORK LANDFILL INC | 4-R10-43 |
| Z104 | MCGLAUGHLIN DENNIS & S | 4-R7-30 |
| A105 | CLEARVIEW VOL FIRE DEPT INC | 2-CV6-34.1 |
| B106 | PLANET HOME LENDING LLC | 2-CV6-28 |
| C107 | BOPP VICTOR V III & DIANN | 2-CV6-28.3 |
| D108 | JOSEPH BRADLEY R & JANETTE L | 2-CV6-27.1 |
| E109 | JOSEPH BRADLEY R & JANETTE L | 2-CV6-27 |
| F110 | JOSEPH BRADLEY R & JANETTE L | 2-CV6-27.2 |
| G111 | LAING MARGARET T | 2-CV6-26 |
| H112 | KIRKSEY MARK R WEATHERSON NANCY (RES'V L/E) | 2-CV6-25 |
| I113 | CONTRAGUERRO MICHAEL J JR & BRITTANY LEIGH CONTRAGUERRO | 2-CV6-24 |
| J114 | STEWART GREGORY L & JODI A | 2-CV6-23 |
| K115 | SAVAGE CHARLES J & RACHEL M | 2-CV6-22 |
| L116 | DAGRAVA TIMOTHY & MEGAN | 2-CV6-21 |
| M117 | BOLES ROBERT E III & TIFFANY M | 2-CV6-10.1 |
| N118 | FRY KATHY L | 2-CV6-11 |
| O119 | FRY KATHY L | 2-CV6-12 |
| P120 | GARRISON NICOLE L | 2-CV6-13 |
| Q121 | MEDOVIC MICHAEL & CATHERINE H | 2-CV7A-17 |
| R122 | MAIDENS CATHERINE - TOD | 2-CV7A-27 |
| S123 | MAIDENS CATHERINE - TOD | 2-CV7A-27.1 |
| T124 | VALENTINE TRAVIS & ELIZABETH | 2-CV7A-31 |
| U125 | GIBSON ROBERT H & D L | 2-CV7A-4 |
| V126 | ROWND DENISE & THOMPSON DANIEL, III | 4-R7-12 |
| W127 | BIEGA CONNIE SUE & FRANK PAUL | 4-R7-12.10 |
| X128 | CITY OF WHEELING | 4-R7L-105 |
| Y129 | CITY OF WHEELING | 4-R7L-100 |
| Z130 | MACFARLAND DARIN P & K L | 4-R7L-99 |
| A131 | CITY OF WHEELING | 4-R7G-25 |
| B132 | MACFARLAND DARIN P & KIMBERLY | 4-R7G-24 |
| C133 | PAYTON SHARON S ET AL | 4-R7G-23 |
| D134 | PAYTON SHARON S ET AL | 4-R7G-20 |
| E135 | ROBINSON RICHARD J | 4-R7G-19 |
| F136 | VELEGOL DAVID & CAROLYN | 4-R7G-18 |
| G137 | GUZZI COREY A & BRITTANY N | 4-R7-11 |
| H138 | GUZZI COREY A & BRITTANY N | 4-R7-10 |
| I139 | BOURNE JOHN & LETHA | 4-R7L-56.8 |
| J140 | WEST VIRGINIA STATE ROAD COMM | 4-R7L-56.7 |
| K141 | MORGAN WILBUR W | 4-R7L-56.6 |
| L142 | FAZZOLARI FRANK SAMUEL ESTATE | 4-R7L-56.5 |
| M143 | WEST VIRGINIA STATE ROAD COMM | 4-R7L-56.4 |
| N144 | FLUHARTY MICHAEL L & BRENDA K | 4-R7L-56 |
| O145 | WEST VIRGINIA STATE ROAD COMM | 4-R7L-56.3 |
| P146 | WEST VIRGINIA STATE ROAD COMM | 4-R7L-56.2 |
| Q147 | DOUGHERTY GEORGE H & THELMA T | 4-R7L-56.1 |
| R148 | JONES SHANNON M WILDS | 4-R7-16.1 |

*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/22/2024

| | | | | |
|-----------------------|------------|---------|----------|----------------------|
| REVISIONS: 4706900373 | COMPANY: | | | |
| | OPERATOR'S | | ROTH OHI | |
| | WELL #: | | 406H | |
| | DISTRICT: | COUNTY: | STATE: | DATE: 09-04-2024 |
| | RICHLAND | OHIO | WV | DRAWN BY: TMF |
| | | | | SCALE: N/A |
| | | | | DRAWING NO: ACE-2598 |
| | | | | WELL LOCATION PLAT 9 |



SURVEYOR/ENGINEER:
1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

| ADJOINING OWNERS TABLE | | |
|------------------------|---|-------------|
| TRACT | SURFACE OWNER (S) | TAX PARCEL |
| S149 | DEAN LOMAN L & R Z | 4-R7-21 |
| T150 | LOEW J W JR & ELSIE | 4-R7-22 |
| U151 | HARTFILE GARY L - TOD | 4-R7-16 |
| V152 | FLUHARTY MICHAEL L | 4-R7-6 |
| W153 | WOLFE JAMES R ESTATE | 4-R7-7 |
| X154 | FLUHARTY MICHAEL L & BRENDA K | 4-R7-8 |
| Y155 | FLUHARTY MICHAEL L & BRENDA K | 4-R7-9.1 |
| Z156 | FLUHARTY MICHAEL & BRENDA | 4-R7-9 |
| A157 | BIEGA FRANKIE P & C S | 4-R7-15 |
| B158 | STEWART MARK E | 4-R7-15.2 |
| C159 | STEWART MARK E; GEIGER LEEANN | 4-R7-28 |
| D160 | HARTFILE GARY L -TOD | 4-R7-15.1 |
| E161 | UNITED STATES OF AMERICA ARMY CORP OF ENG - PITTS DIV | 4-R7-38 |
| F162 | UNITED STATES OF AMERICA ARMY CORP OF ENG - PITTS DIV | 4-R4-1 |
| G163 | TUNNEL RIDGE LLC | 4-R4-2.2 |
| H164 | TUNNEL RIDGE LLC | 4-R4-2 |
| I165 | TUNNEL RIDGE LLC | 4-R4-2.3 |
| J166 | MCCARDLE STANLEY JR & MARYANN | 4-R11-3 |
| K167 | WITSBERGER MARGUERITE L | 4-R11-4.1 |
| L168 | WITSBERGER AMY L | 4-R11-4 |
| M169 | MARY ANN HESS REALTY LLC | 4-R11-5 |
| N170 | DUFF DEBORAH M | 4-R14A-88 |
| O171 | COX C NOLAN | 4-R14A-42 |
| P172 | COX N NOLAN & DEBORAH | 4-R14A-41 |
| Q173 | COX C NOLAN | 4-R14A-53.9 |

*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/22/2024

| | | | | |
|------------------------|------------|---------|----------|----------------------|
| REVISIONS: 47069 00373 | COMPANY: | | | |
| | OPERATOR'S | | ROTH OHI | |
| | WELL #: | | 406H | |
| | DISTRICT: | COUNTY: | STATE: | DATE: 09-04-2024 |
| | RICHLAND | OHIO | WV | DRAWN BY: TMF |
| | | | | SCALE: N/A |
| | | | | DRAWING NO: ACE-2598 |
| | | | | WELL LOCATION PLAT 9 |

WW-6A1
(5/13)

Operator's Well No. Roth OHI 406H

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

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

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

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

See Exhibit "A"

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

*Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission.

*Potentially Impacted Parcels - Parcels that may be impacted during drilling.

**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: Tim Ledet

Its: Staff Landman

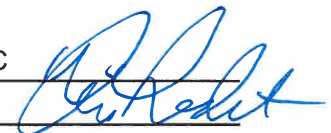


EXHIBIT "A"
Roth OHI 406H
Ohio County, West Virginia

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

| Tract # | Tax Parcel | Lessor | Lessee | Royalty | Book/Page | % Interest Not Leased by SWN |
|---------|---------------------------------------|---|--|----------------------|---|------------------------------|
| 1 | 04-00R7-0024-0000 | The Trust Agreement of Joseph Roth, dated November 05, 2004 | SWN Production Company, LLC | 18.00% | 931/199 | 0.00% |
| 2 | 04-00R7-0023-0000 | Alice M. Edge, aka Alice Mae Edge, a widow and not remarried | SWN Production Company, LLC | 18.00% | 976/502 | 0.00% |
| 3 | 04-00R4-0007-0000 | William H. McClure and Margaret A. McClure, husband and wife | Fossil Creek Ohio, LLC Gulfport Energy Corporation American Petroleum Partners Operating, LLC SWN Production Company, LLC | 18.00% | 873/361 873/585 & 893/379 909/775 946/405 | 0.00% |
| 4 | 04-00R4-0002-0004 | William Scott Donohew & Laura J. Donohew, husband and wife | Fossil Creek Ohio, LLC Gulfport Energy Corporation American Petroleum Partners Operating, LLC SWN Production Company, LLC | 18.00% | 890/66 881/302 & 893/392 909/775 946/405 | 0.00% |
| 5 | 04-00R4-9999-999E (Warwood Avenue) | William Scott Donohew & Laura J. Donohew, husband and wife | Fossil Creek Ohio, LLC Gulfport Energy Corporation American Petroleum Partners Operating, LLC SWN Production Company, LLC | 18.00% | 890/66 881/302 & 893/392 909/775 946/405 | 0.00% |
| 6 | 04-00R7-0020-0000 | Sam Hinebaugh, a married man Ed Hinebaugh, a married man | SWN Production Company, LLC SWN Production Company, LLC | 16.00% 16.00% | 1000/91 1000/97 | 0.00% 0.00% |
| 7 | 04-00R7-0018-0000 | The City of Wheeling | American Petroleum Partners Operating, LLC SWN Production Company, LLC | 18.50% | 936/710 980/572 | 0.00% |
| 8 | 04-00R7-0017-0000 | Michael L. Fluharty and Brenda K. Fluharty, husband and wife | American Petroleum Partners Operating, LLC SWN Production Company, LLC | 18.00% | 942/640 980/572 | 0.00% |
| 9 | 04-00R7-0014-0000 | Daniel Thompson Rownd, III, and Denise A. Rownd, a/k/a Denise Rownd, a/k/a Denise Ann Rownd, husband and wife | TH Exploration, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC | 18.00% | 896/612 958/126 980/572 | 0.00% |
| 10 | 04-00R7-0014-0001 | Daniel Thompson Rownd, III, and Denise A. Rownd, a/k/a Denise Rownd, a/k/a Denise Ann Rownd, husband and wife | TH Exploration, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC | 18.00% | 896/612 958/126 980/572 | 0.00% |
| 11 | 02-CV7A-0008-0000 | Thomas Innocenti III, a widower | SWN Production Company, LLC | 15.00% | 958/308 | 0.00% |
| 12 | 02-CV7A-0007-0000 | Timothy P. Johnson and Crystal J. Johnson, husband and wife | SWN Production Company, LLC | 18.00% | 1022/604 | 0.00% |
| 13 | 02-CV7A-0006-0000 | Linda Louise Ratcliffe, a widow | SWN Production Company, LLC | 15.00% | 1049/503 | 0.00% |

11/22/2024

EXHIBIT "A"
Roth OHI 406H
Ohio County, West Virginia

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

| | | | | | | |
|----|-----------------------------|---|--|------------------------------------|---|---------------------------------|
| 14 | 02-CV7A-0005-0000 | Nathaniel R. Harler, a single man | TH Exploration, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC | 18.00% | 896/130 958/126 980/572 | 0.00% |
| 15 | 02-CV7A-0030-0000 | Andrew Ray Dally and Julie E. Dally, husband and wife | SWN Production Company, LLC | 16.00% | 1000/552 | 0.00% |
| 16 | 02-CV7A-0030-0001 | Andrew Ray Dally and Julie E. Dally, husband and wife | SWN Production Company, LLC | 16.00% | 1000/552 | 0.00% |
| 17 | 02-CV7A-0029-0000 | Dorothy T. Leos a/k/a Dorothy Leos, a widow | Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 14.00% | 847/459 885/77 | 0.00% |
| 18 | 02-CV7A-0028-0000 | Timothy P. McCormick, a married man dealing in his sole and separate property | SWN Production Company, LLC | 17.00% | 1055/689 | 0.00% |
| 19 | 02-CV7A-0015-0000 | Michael Toepfer and Madonna Anne toepfer, husband and wife | SWN Production Company, LLC | 18.00% | 934/718 | 0.00% |
| 20 | 02-CV7A-0016-0000 | Black Gold Group, LTD | SWN Production Company, LLC | 17.00% | 1011/631 | 0.00% |
| 21 | 02-OCV3-0001-0000 | Gregory P. Nodurft and Michelle Nodurft, husband and wife | SWN Production Company, LLC | 16.00% | 933/722 | 0.00% |
| 22 | 02-OCV6-0014-0000 | Charles J. Wolfe, Jr. | SWN Production Company, LLC | 18.00% | 934/677 | 0.00% |
| 23 | 02-OCV6-0013-0001 | William Bradley King | SWN Production Company, LLC | 18.00% | 934/682 | 0.00% |
| 24 | 02-OCV6-0017-0000 | Arthur J. Nickerson and Diann L. Nickerson, husband and wife | TH Exploration, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC | 18.00% | 893/157 958/126 980/572 | 0.00% |
| 25 | 02-OCV6-0018-0000 | Brent J. Strittmatter and Amy Lynn Strittmatter, husband and wife | SWN Production Company, LLC | 16.00% | 1000/134 | 0.00% |
| 26 | 02-OCV6-0019-0000 | Logan G. Stewart and Alicia D. Stewart, husband and wife | American Petroleum Partners Operating, LLC SWN Production Company, LLC | 18.75% | 945/668 980/572 | 0.00% |
| 27 | 02-OCV6-0020-0000 | Douglas Mark Hlad and Lisa Ann Hlad, husband and wife | SWN Production Company, LLC | 18.00% | 935/372 | 0.00% |
| 28 | 04-00R7-0031-0000 | Warwood Land Co., LLC | American Petroleum Partners Operating, LLC SWN Production Company, LLC | 18.00% | 934/797 980/572 | 0.00% |
| 29 | Glen's Run Road/Cherry Hill | West Virginia Department of Transportation, Division of Highways | SWN Production Company, LLC | 20.00% | 1017/169 | 0.00% |
| 30 | 04-OR10-0027-0001 | WesBanco Trust & Investment Services, Trustee U/A Dated December 30, 1981 with William S. Brooks | SWN Production Company, LLC | 18.00% | 1017/450 | 0.00% |
| 31 | 04-OR10-0028-0000 | Sharon L. West, a single woman | SWN Production Company, LLC | 18.00% | 960/174 | 0.00% |
| 32 | 04-OR10-0029-0000 | SWN Production Company, LLC (Company owned minerals) | NA | NA | 993/349 | 0.00% |
| 33 | 04-OR10-0031-0000 | Jessica B. Hogan, a single woman W. Neil Hogan, III, a single man Mary Ann Hess Realty, LLC | SWN Production Company, L.L.C. SWN Production Company, L.L.C. SWN Production Company, L.L.C. | 18.00% 18.00% 18.00% | 932/362 & 934/283 934/287 934/279 | 0.00% 0.00% 0.00% |
| 34 | 04-OR10-0042-0000 | Sandra Murray, a single woman | SWN Production Company, LLC | 16.00% | 918/298 | 0.00% |

11/22/2024

EXHIBIT "A"
Roth OHI 406H
Ohio County, West Virginia

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

| | | | | | | |
|----|-------------------|---|--|--------|-------------------------------|-------|
| 35 | 04-OR11-0002-0004 | Christopher Scott Golden and Brandace Lynn Golden, husband and wife | American Petroleum Partners Operating, L.L.C. SWN Production Company, LLC | 18.00% | 932/101 & 1005/693 980/572 | 0.00% |
| | | Bounty Minerals, LLC | SWN Production Company, LLC | 18.00% | 938/783 | 0.00% |
| 36 | 04-OR11-0002-0012 | Daniel T. Doyle and Lucinda E. Doyle, husband and wife | SWN Production Company, LLC | 18.00% | 1000/169 | 0.00% |
| 37 | 04-OR11-0002-0011 | Daniel T. Doyle and Lucinda E. Doyle, husband and wife | SWN Production Company, LLC | 18.00% | 1000/169 | 0.00% |
| 38 | 04-OR11-0002-0006 | Daniel T. Doyle and Lucinda E. Doyle, husband and wife | SWN Production Company, LLC | 18.00% | 1000/169 | 0.00% |
| 39 | 04-OR11-0002-0009 | Daniel T. Doyle and Lucinda E. Doyle, husband and wife | SWN Production Company, LLC | 18.00% | 1000/169 | 0.00% |
| 40 | 04-R14A-0024-0000 | United Bank, a Virginia Corporation | SWN Production Company, LLC | 15.00% | 1019/700 | 0.00% |
| | | Adolph W. Santorine, Jr. and Iora Kaye Santorine, as joint tenants with right of survivorship | SWN Production Company, LLC | 18.00% | 1039/779 | 0.00% |
| 41 | 04-R14A-0025-0000 | United Bank, a Virginia Corporation | SWN Production Company, LLC | 15.00% | 1019/700 | 0.00% |
| | | C. Nolan Cox and Deborah A. Cox, husband and wife | American Petroleum Partners, LLC | 18.00% | 938/126 | 0.00% |
| | | | SWN Production Company | | 980/572 | 0.00% |
| 42 | 04-R14A-0069-0001 | Elizabeth A. Joseph, a single woman | SWN Production Company, LLC | 18.00% | 1004/26 | 0.00% |
| | | Elias Joseph, a single man | SWN Production Company, LLC | 18.00% | 1031/7 | 0.00% |
| 43 | 04-R14A-0069-0000 | Elizabeth A. Joseph, a single woman | SWN Production Company, LLC | 18.00% | 1004/26 | 0.00% |
| | | Elias Joseph, a single man | SWN Production Company, LLC | 18.00% | 1031/7 | 0.00% |
| 44 | 04-R14A-0071-0000 | United Bank, a Virginia Corporation | SWN Production Company, LLC | 15.00% | 1019/700 | 0.00% |
| | | Francis X. Duff and Deborah M. Duff, husband and wife | American Petroleum Partners Operating, LLC | 18.00% | 935/263 | 0.00% |
| | | | SWN Production Company | | 980/572 | 0.00% |
| 45 | 04-R14A-0053-0002 | United Bank, a Virginia Corporation | SWN Production Company, LLC | 15.00% | 1019/700 | 0.00% |
| | | Frank Anthony Ames, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/332 | 0.00% |
| | | Mary Anne Anthony, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1031/59 | 0.00% |
| | | Ashley Beltoff, a single woman | SWN Production Company, LLC | 14.00% | 1033/105 | 0.00% |
| | | Jason Beltoff, a married man dealing in his sole and separate property | SWN Production Company, LLC | 14.00% | 1035/571 | 0.00% |
| | | Deidre Bersnak | SWN Production Company, LLC | 16.00% | 1025/169 | 0.00% |
| | | Carl J. Bickler, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1033/116 | 0.00% |
| | | Matthew E. Bickler | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Edward S. Bippus Jr. Trust | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Margaret Caroline Bippus | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | William Edward Bippus, Jr. | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Sheila E. Thompson Buckley and Raymond Buckley, husband and wife | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Erin E. Cannon, a married person dealing in their sole and separate property | SWN Production Company, LLC | 18.00% | 1033/61 | 0.00% |

11/22/2024

EXHIBIT "A"

Roth OHI 406H

Ohio County, West Virginia

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

| | | | | |
|---|-----------------------------|--------|----------|-------|
| Margaret A. Deist | SWN Production Company, LLC | 18.00% | 1036/464 | 0.00% |
| Lisa Jane Donovan, a single woman | SWN Production Company, LLC | 14.00% | 1027/94 | 0.00% |
| William E. Donovan, a single man | SWN Production Company, LLC | 14.00% | 1027/84 | 0.00% |
| David Kaniela Dougan, a single man | SWN Production Company, LLC | 18.00% | 1035/472 | 0.00% |
| Douglas Dougan, a married man dealing in his sole and separate purpose | SWN Production Company, LLC | 18.00% | 1031/126 | 0.00% |
| Malia-Beth Dougan, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1035/447 | 0.00% |
| Robert Drake, a single man | SWN Production Company, LLC | 18.00% | 1031/138 | 0.00% |
| Kathleen Tracy Fisher, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 16.00% | 1025/229 | 0.00% |
| Lea Jane Finney Fuller | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| Theresa M. Guadino, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1035/548 | 0.00% |
| Diane Dougan Guittron, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1038/218 | 0.00% |
| David Gundling, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1033/138 | 0.00% |
| Ellen C. Gundling, a single woman | SWN Production Company, LLC | 18.00% | 1029/288 | 0.00% |
| Valentine George Gundling, III, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1033/127 | 0.00% |
| Katrine R. Gutman, a widow | SWN Production Company, LLC | 18.00% | 1031/37 | 0.00% |
| Mary Kathryn Connors Hessel, a single woman | SWN Production Company, LLC | 18.00% | 1038/207 | 0.00% |
| Karen A. Himrod, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1035/512 | 0.00% |
| Tara E. Tolpa Jozwick, a single woman | SWN Production Company, LLC | 16.00% | 1035/494 | 0.00% |
| Beverly Carothers Kaveney, a single woman | SWN Production Company, LLC | 16.00% | 1025/219 | 0.00% |
| John Barry Kelly, II, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1025/199 | 0.00% |
| John Joseph Patrick Kelly, a single man | SWN Production Company, LLC | 16.00% | 1025/189 | 0.00% |
| Maureen Kerscher, a single woman | SWN Production Company, LLC | 16.00% | 1023/683 | 0.00% |
| Dolores Dougan Kilmer, a married woman | SWN Production Company, LLC | 18.00% | 1033/72 | 0.00% |
| Tracey E. Markus, a married person deaing in their sole and separate property | SWN Production Company, LLC | 18.00% | 1033/50 | 0.00% |
| Charles S. McFadden, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/310 | 0.00% |
| Mollie O'Brien Moore, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1029/321 | 0.00% |
| Anne O'Brien Morrissey, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1036/453 | 0.00% |
| Kristin Musinipally, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1033/83 | 0.00% |
| Catherine G. O'Brien, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 16.00% | 1022/666 | 0.00% |
| Clement E. O'Brien, Jr. | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| Colin O'Brien | SWN Production Company, LLC | 18.00% | 1031/27 | 0.00% |
| Dana O'Brien, a single person | SWN Production Company, LLC | 18.00% | 1023/663 | 0.00% |

11/22/2024

EXHIBIT "A"

Roth OHI 406H

Ohio County, West Virginia

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

| | | | | | |
|----|--|-----------------------------|--------|----------|-------|
| | David Alan O'Brien a/k/a David Allen O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/277 | 0.00% |
| | James P. O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/255 | 0.00% |
| | John J. P. O'Brien III a/k/a John J. O'Brien, a single man | SWN Production Company, LLC | 18.00% | 1020/687 | 0.00% |
| | Kevin O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1038/196 | 0.00% |
| | Mark O'Brien | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | Michael O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1023/673 | 0.00% |
| | Neal O'Brien | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | Richard Joseph O'Brien, III a/k/a Richard J. O'Brien, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/244 | 0.00% |
| | Robert R. O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1025/179 | 0.00% |
| | Sean O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1025/209 | 0.00% |
| | Thomas P. O'Brien, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1023/703 | 0.00% |
| | Timothy P. O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1031/81 | 0.00% |
| | William R. O'Brien, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1040/30 | 0.00% |
| | Jean K. Rempe, a widow | SWN Production Company, LLC | 18.00% | 1033/94 | 0.00% |
| | Michael L. Rempe, a single man | SWN Production Company, LLC | 18.00% | 1031/103 | 0.00% |
| | Sheila O'Brien Rodriguez, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 16.00% | 1023/693 | 0.00% |
| | Natalie Ramuno, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1031/114 | 0.00% |
| | Elizabeth Finney Smith | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | St. Columbine Church | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | Christine O'Brien Stenger a/k/a Penny Christine O'Brien, a single woman | SWN Production Company, LLC | 18.00% | 1029/266 | 0.00% |
| | William Stimson | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | Christine Finney Thompson | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | William S. Thompson | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | Carrie J. Tolpa, a single woman | SWN Production Company, LLC | 16.00% | 1035/483 | 0.00% |
| | Virginia Dawn Alligood Watkins, a single woman | SWN Production Company, LLC | 14.00% | 1035/583 | 0.00% |
| | Gretchen Ann Gundling Wilson, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1029/299 | 0.00% |
| | Karen E. Yaeger, single | SWN Production Company, LLC | 18.00% | 1031/92 | 0.00% |
| | Wilhelmina Yaeger | SWN Production Company, LLC | 18.00% | 1031/48 | 0.00% |
| | Kathleen L. Zabora, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1031/70 | 0.00% |
| 46 | 04-R14A-0111-0000 United Bank, a Virginia Corporation | SWN Production Company, LLC | 15.00% | 1019/700 | 0.00% |
| | Frank Anthony Ames, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/332 | 0.00% |
| | Mary Anne Anthony, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1031/59 | 0.00% |

11/22/2024

EXHIBIT "A"
Roth OHI 406H
Ohio County, West Virginia

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

| | | | | |
|---|-----------------------------|--------|----------|-------|
| Ashley Beltoff, a single woman | SWN Production Company, LLC | 14.00% | 1033/105 | 0.00% |
| Jason Beltoff, a married man dealing in his sole and separate property | SWN Production Company, LLC | 14.00% | 1035/571 | 0.00% |
| Deidre Bersnak | SWN Production Company, LLC | 16.00% | 1025/169 | 0.00% |
| Carl J. Bickler, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1033/116 | 0.00% |
| Matthew E. Bickler | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| Edward S. Bippus Jr. Trust | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| Margaret Caroline Bippus | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| William Edward Bippus, Jr. | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| Sheila E. Thompson Buckley and Raymond Buckley, husband and wife | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| Erin E. Cannon, a married person dealing in their sole and separate property | SWN Production Company, LLC | 18.00% | 1033/61 | 0.00% |
| Margaret A. Deist | SWN Production Company, LLC | 18.00% | 1036/464 | 0.00% |
| Lisa Jane Donovan, a single woman | SWN Production Company, LLC | 14.00% | 1027/94 | 0.00% |
| William E. Donovan, a single man | SWN Production Company, LLC | 14.00% | 1027/84 | 0.00% |
| David Kaniela Dougan, a single man | SWN Production Company, LLC | 18.00% | 1035/472 | 0.00% |
| Douglas Dougan, a married man dealing in his sole and separate purpose | SWN Production Company, LLC | 18.00% | 1031/126 | 0.00% |
| Malia-Beth Dougan, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1035/447 | 0.00% |
| Robert Drake, a single man | SWN Production Company, LLC | 18.00% | 1031/138 | 0.00% |
| Kathleen Tracy Fisher, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 16.00% | 1025/229 | 0.00% |
| Lea Jane Finney Fuller | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| Theresa M. Guadino, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1035/548 | 0.00% |
| Diane Dougan Guittron, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1038/218 | 0.00% |
| David Gundling, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1033/138 | 0.00% |
| Ellen C. Gundling, a single woman | SWN Production Company, LLC | 18.00% | 1029/288 | 0.00% |
| Valentine George Gundling, III, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1033/127 | 0.00% |
| Katrine R. Gutman, a widow | SWN Production Company, LLC | 18.00% | 1031/37 | 0.00% |
| Mary Kathryn Connors Hessel, a single woman | SWN Production Company, LLC | 18.00% | 1038/207 | 0.00% |
| Karen A. Himrod, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1035/512 | 0.00% |
| Tara E. Tolpa Jozwick, a single woman | SWN Production Company, LLC | 16.00% | 1035/494 | 0.00% |
| Beverly Carothers Kaveney, a single woman | SWN Production Company, LLC | 16.00% | 1025/219 | 0.00% |
| John Barry Kelly, II, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1025/199 | 0.00% |
| John Joseph Patrick Kelly, a single man | SWN Production Company, LLC | 16.00% | 1025/189 | 0.00% |
| Maureen Kerscher, a single woman | SWN Production Company, LLC | 16.00% | 1023/683 | 0.00% |

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| | | | | |
|--|-----------------------------|--------|----------|-------|
| Dolores Dougan Kilmer, a married woman | SWN Production Company, LLC | 18.00% | 1033/72 | 0.00% |
| Tracey E. Markus, a married person deaing in their sole and separate property | SWN Production Company, LLC | 18.00% | 1033/50 | 0.00% |
| Charles S. McFadden, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/310 | 0.00% |
| Mollie O'Brien Moore, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1029/321 | 0.00% |
| Anne O'Brien Morrissey, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1036/453 | 0.00% |
| Kristin Musinipally, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1033/83 | 0.00% |
| Catherine G. O'Brien, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 16.00% | 1022/666 | 0.00% |
| Clement E. O'Brien, Jr. | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
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| Dana O'Brien, a single person | SWN Production Company, LLC | 16.00% | 1023/663 | 0.00% |
| David Alan O'Brien a/k/a David Allen O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/277 | 0.00% |
| James P. O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/255 | 0.00% |
| John J. P. O'Brien III a/k/a John J. O'Brien, a single man | SWN Production Company, LLC | 18.00% | 1020/687 | 0.00% |
| Kevin O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1038/196 | 0.00% |
| Mark O'Brien | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| Michael O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1023/673 | 0.00% |
| Neal O'Brien | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| Richard Joseph O'Brien, III a/k/a Richard J. O'Brien, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/244 | 0.00% |
| Robert R. O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1025/179 | 0.00% |
| Sean O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1025/209 | 0.00% |
| Thomas P. O'Brien, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1023/703 | 0.00% |
| Timothy P. O'Brien, a married man dealing in his sole and separte property | SWN Production Company, LLC | 18.00% | 1031/81 | 0.00% |
| William R. O'Brien, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1040/30 | 0.00% |
| Jean K. Rempe, a widow | SWN Production Company, LLC | 18.00% | 1033/94 | 0.00% |
| Michael L. Rempe, a single man | SWN Production Company, LLC | 18.00% | 1031/103 | 0.00% |
| Sheila O'Brien Rodriguez, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 16.00% | 1023/693 | 0.00% |
| Natalie Ramuno, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1031/114 | 0.00% |
| Elizabeth Finney Smith | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| St. Columbine Church | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| Christine O'Brien Stenger a/k/a Penny Christine O'Brien, a single woman | SWN Production Company, LLC | 18.00% | 1029/266 | 0.00% |
| William Stimson | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
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11/22/2024

EXHIBIT "A"
Roth OHI 406H

Ohio County, West Virginia

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| | | William S. Thompson | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Carrie J. Tolpa, a single woman | SWN Production Company, LLC | 16.00% | 1035/483 | 0.00% |
| | | Virginia Dawn Alligood Watkins, a single woman | SWN Production Company, LLC | 14.00% | 1035/583 | 0.00% |
| | | Gretchen Ann Gundling Wilson, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1029/299 | 0.00% |
| | | Karen E. Yaeger, single | SWN Production Company, LLC | 18.00% | 1031/92 | 0.00% |
| | | Wilhelmina Yaeger | SWN Production Company, LLC | 18.00% | 1031/48 | 0.00% |
| | | Kathleen L. Zabora, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1031/70 | 0.00% |
| 47 | 04-R14A-0210-0000 | Frank Anthony Ames, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/332 | 0.00% |
| | | Mary Anne Anthony, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1031/59 | 0.00% |
| | | Ashley Beltoff, a single woman | SWN Production Company, LLC | 14.00% | 1033/105 | 0.00% |
| | | Jason Beltoff, a married man dealing in his sole and separate property | SWN Production Company, LLC | 14.00% | 1035/571 | 0.00% |
| | | Deidre Bersnak | SWN Production Company, LLC | 16.00% | 1025/169 | 0.00% |
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| | | Matthew E. Bickler | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
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| | | William E. Donovan, a single man | SWN Production Company, LLC | 14.00% | 1027/84 | 0.00% |
| | | David Kaniela Dougan, a single man | SWN Production Company, LLC | 18.00% | 1035/472 | 0.00% |
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| | | Malia-Beth Dougan, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1035/447 | 0.00% |
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| | | Lea Jane Finney Fuller | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Theresa M. Guadino, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1035/548 | 0.00% |
| | | Diane Dougan Guittron, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1038/218 | 0.00% |
| | | David Gundling, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1033/138 | 0.00% |
| | | Ellen C. Gundling, a single woman | SWN Production Company, LLC | 18.00% | 1029/288 | 0.00% |

11/22/2024

EXHIBIT "A"
Roth OHI 406H

Ohio County, West Virginia

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| Valentine George Gundling, III, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1033/127 | 0.00% |
| Katrine R. Gutman, a widow | SWN Production Company, LLC | 18.00% | 1031/37 | 0.00% |
| Mary Kathryn Connors Hessel, a single woman | SWN Production Company, LLC | 18.00% | 1038/207 | 0.00% |
| Karen A. Himrod, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1035/512 | 0.00% |
| Tara E. Tolpa Jozwick, a single woman | SWN Production Company, LLC | 16.00% | 1035/494 | 0.00% |
| Beverly Carothers Kaveney, a single woman | SWN Production Company, LLC | 16.00% | 1025/219 | 0.00% |
| John Barry Kelly, II, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1025/199 | 0.00% |
| John Joseph Patrick Kelly, a single man | SWN Production Company, LLC | 16.00% | 1025/189 | 0.00% |
| Maureen Kerscher, a single woman | SWN Production Company, LLC | 16.00% | 1023/683 | 0.00% |
| Dolores Dougan Kilmer, a married woman | SWN Production Company, LLC | 18.00% | 1033/72 | 0.00% |
| Tracey E. Markus, a married person deaing in their sole and separate property | SWN Production Company, LLC | 18.00% | 1033/50 | 0.00% |
| Charles S. McFadden, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/310 | 0.00% |
| Mollie O'Brien Moore, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1029/321 | 0.00% |
| Anne O'Brien Morrissey, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1036/453 | 0.00% |
| Kristin Musinipally, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1033/83 | 0.00% |
| Catherine G. O'Brien, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 16.00% | 1022/666 | 0.00% |
| Clement E. O'Brien, Jr. | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| Colin O'Brien | SWN Production Company, LLC | 16.00% | 1031/27 | 0.00% |
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| John J. P. O'Brien III a/k/a John J. O'Brien, a single man | SWN Production Company, LLC | 18.00% | 1020/687 | 0.00% |
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| Richard Joseph O'Brien, III a/k/a Richard J. O'Brien, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/244 | 0.00% |
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| Thomas P. O'Brien, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1023/703 | 0.00% |
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| William R. O'Brien, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1040/30 | 0.00% |

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|----|-------------------|---|-----------------------------|--------|----------|-------|
| | | Jean K. Rempe, a widow | SWN Production Company, LLC | 18.00% | 1033/94 | 0.00% |
| | | Michael L. Rempe, a single man | SWN Production Company, LLC | 18.00% | 1031/103 | 0.00% |
| | | Sheila O'Brien Rodriguez, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 16.00% | 1023/693 | 0.00% |
| | | Natalie Ramuno, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1031/114 | 0.00% |
| | | Elizabeth Finney Smith | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | St. Columbine Church | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Christine O'Brien Stenger a/k/a Penny Christine O'Brien, a single woman | SWN Production Company, LLC | 18.00% | 1029/266 | 0.00% |
| | | William Stimson | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Christine Finney Thompson | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | William S. Thompson | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Carrie J. Tolpa, a single woman | SWN Production Company, LLC | 16.00% | 1035/483 | 0.00% |
| | | Virginia Dawn Alligood Watkins, a single woman | SWN Production Company, LLC | 14.00% | 1035/583 | 0.00% |
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| | | Karen E. Yaeger, single | SWN Production Company, LLC | 18.00% | 1031/92 | 0.00% |
| | | Wilhelmina Yaeger | SWN Production Company, LLC | 18.00% | 1031/48 | 0.00% |
| | | Kathleen L. Zabora, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1031/70 | 0.00% |
| 48 | 04-R14A-0183-0000 | Frank Anthony Ames, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/332 | 0.00% |
| | | Mary Anne Anthony, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1031/59 | 0.00% |
| | | Ashley Beltoff, a single woman | SWN Production Company, LLC | 14.00% | 1033/105 | 0.00% |
| | | Jason Beltoff, a married man dealing in his sole and separate property | SWN Production Company, LLC | 14.00% | 1035/571 | 0.00% |
| | | Deidre Bersnak | SWN Production Company, LLC | 16.00% | 1025/169 | 0.00% |
| | | Carl J. Bickler, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1033/116 | 0.00% |
| | | Matthew E. Bickler | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Edward S. Bippus Jr. Trust | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Margaret Caroline Bippus | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | William Edward Bippus, Jr. | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Sheila E. Thompson Buckley and Raymond Buckley, husband and wife | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Erin E. Cannon, a married person dealing in their sole and separate property | SWN Production Company, LLC | 18.00% | 1033/61 | 0.00% |
| | | Margaret A. Deist | SWN Production Company, LLC | 18.00% | 1036/464 | 0.00% |
| | | Lisa Jane Donovan, a single woman | SWN Production Company, LLC | 14.00% | 1027/94 | 0.00% |
| | | William E. Donovan, a single man | SWN Production Company, LLC | 14.00% | 1027/84 | 0.00% |
| | | David Kaniela Dougan, a single man | SWN Production Company, LLC | 18.00% | 1035/472 | 0.00% |

11/22/2024

EXHIBIT "A"
Roth OHI 406H

Ohio County, West Virginia

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

| | | | | |
|---|-----------------------------|--------|----------|-------|
| Douglas Dougan, a married man dealing in his sole and separate purpose | SWN Production Company, LLC | 18.00% | 1031/126 | 0.00% |
| Malia-Beth Dougan, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1035/447 | 0.00% |
| Robert Drake, a single man | SWN Production Company, LLC | 18.00% | 1031/138 | 0.00% |
| Kathleen Tracy Fisher, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 16.00% | 1025/229 | 0.00% |
| Lea Jane Finney Fuller | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| Theresa M. Guadino, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1035/548 | 0.00% |
| Diane Dougan Guittron, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1038/218 | 0.00% |
| David Gundling, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1033/138 | 0.00% |
| Ellen C. Gundling, a single woman | SWN Production Company, LLC | 18.00% | 1029/288 | 0.00% |
| Valentine George Gundling, III, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1033/127 | 0.00% |
| Katrine R. Gutman, a widow | SWN Production Company, LLC | 18.00% | 1031/37 | 0.00% |
| Mary Kathryn Connors Hessel, a single woman | SWN Production Company, LLC | 18.00% | 1038/207 | 0.00% |
| Karen A. Himrod, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1035/512 | 0.00% |
| Tara E. Tolpa Jozwick, a single woman | SWN Production Company, LLC | 16.00% | 1035/494 | 0.00% |
| Beverly Carothers Kaveney, a single woman | SWN Production Company, LLC | 16.00% | 1025/219 | 0.00% |
| John Barry Kelly, II, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1025/199 | 0.00% |
| John Joseph Patrick Kelly, a single man | SWN Production Company, LLC | 16.00% | 1025/189 | 0.00% |
| Maureen Kerscher, a single woman | SWN Production Company, LLC | 16.00% | 1023/683 | 0.00% |
| Dolores Dougan Kilmer, a married woman | SWN Production Company, LLC | 18.00% | 1033/72 | 0.00% |
| Tracey E. Markus, a married person deaing in their sole and separate property | SWN Production Company, LLC | 18.00% | 1033/50 | 0.00% |
| Charles S. McFadden, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/310 | 0.00% |
| Mollie O'Brien Moore, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1029/321 | 0.00% |
| Anne O'Brien Morrissey, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1036/453 | 0.00% |
| Kristin Musinipally, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1033/83 | 0.00% |
| Catherine G. O'Brien, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 16.00% | 1022/666 | 0.00% |
| Clement E. O'Brien, Jr. | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| Colin O'Brien | SWN Production Company, LLC | 16.00% | 1031/27 | 0.00% |
| Dana O'Brien, a single person | SWN Production Company, LLC | 16.00% | 1023/663 | 0.00% |
| David Alan O'Brien a/k/a David Allen O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/277 | 0.00% |
| James P. O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/255 | 0.00% |
| John J. P. O'Brien III a/k/a John J. O'Brien, a single man | SWN Production Company, LLC | 18.00% | 1020/687 | 0.00% |
| Kevin O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1038/196 | 0.00% |

11/22/2024

EXHIBIT "A"
Roth OHI 406H

Ohio County, West Virginia

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

| | | | | | | |
|-----|-------------------|--|-----------------------------|--------|----------|-------|
| | | Mark O'Brien | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Michael O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1023/673 | 0.00% |
| | | Neal O'Brien | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Richard Joseph O'Brien, III a/k/a Richard J. O'Brien, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1029/244 | 0.00% |
| | | Robert R. O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1025/179 | 0.00% |
| | | Sean O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1025/209 | 0.00% |
| | | Thomas P. O'Brien, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 16.00% | 1023/703 | 0.00% |
| | | Timothy P. O'Brien, a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1031/81 | 0.00% |
| | | William R. O'Brien, Jr., a married man dealing in his sole and separate property | SWN Production Company, LLC | 18.00% | 1040/30 | 0.00% |
| | | Jean K. Rempe, a widow | SWN Production Company, LLC | 18.00% | 1033/94 | 0.00% |
| | | Michael L. Rempe, a single man | SWN Production Company, LLC | 18.00% | 1031/103 | 0.00% |
| | | Sheila O'Brien Rodriguez, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 16.00% | 1023/693 | 0.00% |
| | | Natalie Ramuno, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1031/114 | 0.00% |
| | | Elizabeth Finney Smith | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | St. Columbine Church | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Christine O'Brien Stenger a/k/a Penny Christine O'Brien, a single woman | SWN Production Company, LLC | 18.00% | 1029/266 | 0.00% |
| | | William Stimson | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Christine Finney Thompson | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | William S. Thompson | SWN Production Company, LLC | 18.00% | 1041/347 | 0.00% |
| | | Carrie J. Tolpa, a single woman | SWN Production Company, LLC | 16.00% | 1035/483 | 0.00% |
| | | Virginia Dawn Alligood Watkins, a single woman | SWN Production Company, LLC | 14.00% | 1035/583 | 0.00% |
| | | Gretchen Ann Gundling Wilson, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1029/299 | 0.00% |
| | | Karen E. Yaeger, single | SWN Production Company, LLC | 18.00% | 1031/92 | 0.00% |
| | | Wilhelmina Yaeger | SWN Production Company, LLC | 18.00% | 1031/48 | 0.00% |
| | | Kathleen L. Zabora, a married woman dealing in her sole and separate property | SWN Production Company, LLC | 18.00% | 1031/70 | 0.00% |
| 49 | 04-R14E-0005-0000 | Diane Dana, f/k/a Diana D. Bartolovic, a widow | SWN Production Company, LLC | 16.00% | 999/171 | 0.00% |
| | | Eileen Elizabeth Kivlahan, a single woman | SWN Production Company, LLC | 17.00% | 1008/727 | 0.00% |
| | | Kevin Dana Kivlahan | SWN Production Company, LLC | 17.00% | 1008/763 | 0.00% |
| | | Patrick Dennis Kivlahan | SWN Production Company, LLC | 17.00% | 1009/779 | 0.00% |
| | | Kathleen Mary Fenske, f/k/a Kathleen Mary Kivlahan | SWN Production Company, LLC | 17.00% | 1010/1 | 0.00% |
| U21 | 02-OCV6-0015-0003 | James M. Behrens, a single man | SWN Production Company, LLC | 16.00% | 1017/54 | 0.00% |
| R44 | 04-OR10-0027-0000 | Richard H. Ernest, Jr. and Anita L. Ernest, husband and wife | SWN Production Company, LLC | 14.00% | 1005/93 | 0.00% |

11/22/2024

EXHIBIT "A"

Roth OHI 406H

Ohio County, West Virginia

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

| | | | | | | |
|------|-------------------|--|---|--------|---------|-------|
| V126 | 04-00R7-0012-0000 | Daniel Thompson Rownd, III, and Denise A. Rownd, a/k/a Denise Rownd, a/k/a Denise Ann Rownd, husband and wife | TH Exploration, LLC | 18.00% | 896/612 | 0.00% |
| | | | American Petroleum Partners Operating, LLC | | 958/126 | |
| | | | SWN Production Company, LLC | | 980/572 | |

END OF EXHIBIT A

*Potentially Impacted Parcels - Parcels that may be impacted during drilling.

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

*Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission.

11/22/2024



4706900373

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

September 9, 2024

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

RE: SWN's proposed New Well: Roth OHI 406H in Ohio County, West Virginia, drilling under Warwood Avenue, Lilac Lane, Willow Springs Road, Sandy Kay Drive, Debbie Ann Drive, Clearview Avenue, Cherry Hill Road, Sams Run Road, Bedford Lane, Falls Road, Merrymount Road, and Chancery 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 Warwood Avenue, Lilac Lane, Willow Springs Road, Sandy Kay Drive, Debbie Ann Drive, Clearview Avenue, Cherry Hill Road, Sams Run Road, Bedford Lane, Falls Road, Merrymount Road, and Chancery 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,

Timothy F. Ledet
Staff Landman
SWN Production Company, LLC

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Office of Oil and Gas
OCT 15 2024
WV Department of
Environmental Protection



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

11/22/2024

4706900373

WW-PN
(11-18-2015)

**Horizontal Natural Gas Well Work Permit
Application Notice By Publication**

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: The Intelligencer

Public Notice Date: September 4, 2024 & September 11, 2024

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: SWN Production Company, LLC **Well Number:** Roth OHI 406H

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

Business Conducted: Natural gas production.

Location –

State: West Virginia / County: Ohio /
District: Richland / Quadrangle: Tiltonsville /
UTM Coordinate NAD83 Northing: 4,444,588 /
UTM coordinate NAD83 Easting: 526,658 /
Watershed: Upper Ohio- Wheeling /

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/1lutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx> to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at <https://apps.dep.wv.gov/oog/comments/comments.cfm>, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

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Environmental Protection

11/22/2024

4706900373

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

Date of Notice Certification: 10/9

API No. 47- 069 - _____
Operator's Well No. Roth OHI 406H _____
Well Pad Name: Roth OHI _____

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>526657.710</u> |
| County: | <u>069-Ohio</u> | | Northing: | <u>4444588.206</u> |
| District: | <u>Richland</u> | Public Road Access: | | <u>Clearview Avenue</u> |
| Quadrangle: | <u>Tiltonsville</u> | Generally used farm name: | | <u>Roth OHI</u> |
| Watershed: | <u>Upper Ohio-Wheeling</u> | | | |

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

| | | |
|--|--|---|
| Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION | | <p align="center">OOG OFFICE USE ONLY</p> <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED |
| RECEIVED Office of Oil and Gas OCT 15 2024 | | |

WV Department of
Environmental Protection

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.

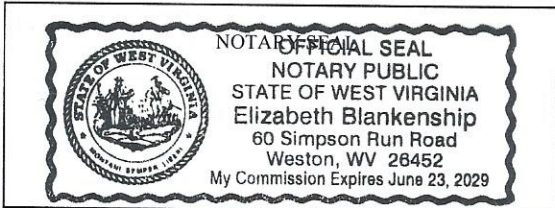
11/22/2024

Certification of Notice is hereby given:

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

| | | | |
|----------------|------------------------------------|------------|--|
| Well Operator: | <u>SWN Production Co., LLC</u> | Address: | <u>1300 Fort Pierpont Dr., Suite 201</u> |
| By: | <u>Brittany Woody</u> | | <u>Morgantown, WV 26508</u> |
| Its: | <u>Staff Regulatory Specialist</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 5 day of Sept 2024.
Elizabeth Blankenship Notary Public
 My Commission Expires 6/23/2029

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.

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 Office of Oil and Gas
 OCT 15 2024
 WV Department of
 Environmental Protection

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

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

Date of Notice: 10/9/24 Date Permit Application Filed: 10/9/24
Notice of:

- [X] 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 [X] 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.

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

[X] SURFACE OWNER(s)
Name: Roth Farm, LLC
Address: 423 Clearview Avenue
Wheeling, WV 26003
Name: _____
Address: _____

[] SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: _____
Address: _____
Name: _____
Address: _____

[] SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

[X] COAL OWNER OR LESSEE
Name: Alliance Resources GP, LLC
Address: 2596 Battle Run Road
Triadelphia, WV 26059
[] COAL OPERATOR
Name: _____
Address: _____

[X] SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: None
Address: _____

[] OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
OCT 15 2024
WV Department of Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 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 more used as a 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

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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

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.**

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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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11/22/2024

WW-6A
(8-13)

4706900373
API NO. 47- 069
OPERATOR WELL NO. Roth OHI 406H
Well Pad Name: Roth OHI

Notice is hereby given by:

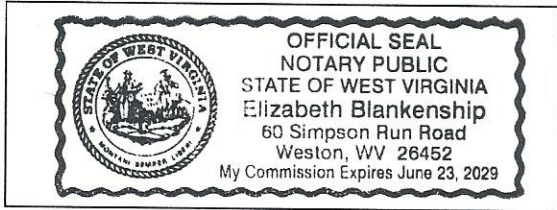
Well Operator: SWN Production Co., LLC
Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

Brittany Woody

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 5 day of Sept 2024.

Elizabeth Blankenship Notary Public

My Commission Expires 6/23/2029

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11/22/2024

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

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

Date of Notice: 2/3/2022 **Date of Planned Entry:** 2/10/2022

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

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

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: The Roth Farm, LLC
 Address: 423 Clearview Avenue
 Wheeling, WV 26003
 Name: _____
 Address: _____
 Name: _____
 Address: _____

COAL OWNER OR LESSEE

Name: Alliance Resources GP, LLC
 Address: 2596 Battle Run Road
 Triadelphia, WV 26059

MINERAL OWNER(S)

Name: The Roth Farm, LLC
 Address: 423 Clearview Avenue
 Wheeling, WV 26003

*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: West Virginia | Approx. Latitude & Longitude: 40.15163347, -80.67956229 |
| County: Ohio | Public Road Access: Clearview Avenue |
| District: Richland | Watershed: Upper Ohio-Wheeling |
| Quadrangle: Tiltonsville, OH Quad | Generally used farm name: The Roth Farm, LLC |

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 Pierport Dr., Suite 201
 Morgantown, WV 26508
 Facsimile: 304-884-1690

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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-6A4
(1/12)

4706900373
Operator Well No. ROTH OHI 406H

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

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

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

Date of Notice: 09/05/2024 **Date Permit Application Filed:** 10/21/24

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: THE ROTH FARM, LLC
Address: 423 CLEARVIEW AVENUE
WHEELING, WV, 26003

Name: _____
Address: _____

Notice is hereby given:

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

State: WV UTM NAD 83 Easting: 526,657.710
County: OHIO Northing: 4,444,588.206
District: RICHLAND Public Road Access: CLEARVIEW AVENUE
Quadrangle: TILTONSVILLE 7.5', OH Generally used farm name: ROTH OHI
Watershed: UPPER OHIO-WHEELING

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: 304-231-8329
Email: reid_croft@swn.com
Facsimile: _____

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

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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.

11/22/2024

WW-6A5
(1/12)

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

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

Date of Notice: 09/05/2024 **Date Permit Application Filed:** 10/19/24

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: <u>THE ROTH FARM, LLC</u> | Name: _____ |
| Address: <u>423 CLEARVIEW AVENUE</u> | Address: _____ |
| <u>WHEELING, WV, 26003</u> | _____ |

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>WV</u> | UTM NAD 83 | Easting: <u>526,657.710</u> |
| County: <u>OHIO</u> | | Northing: <u>4,444,588.206</u> |
| District: <u>RICHLAND</u> | Public Road Access: <u>CLEARVIEW AVENUE</u> | |
| Quadrangle: <u>TILTONSVILLE 7.5', OH</u> | Generally used farm name: <u>ROTH OHI</u> | |
| Watershed: <u>UPPER OHIO-WHEELING</u> | | |

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 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: 304-231-8329

Email: reid_croft@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: _____

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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.

WV Department of
Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of HighwaysOffice of the District Engineer/Manager
District Four

Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

Alanna J. Keller, P.E.
Deputy Secretary of Transportation
Deputy Commissioner of HighwaysJimmy Wriston, P. E.
Secretary of Transportation
Commissioner of Highways

September 4, 2024

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304Subject: DOH Permit for the Roth Well Pad, Ohio County
Roth OHI 406H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2022-0084 which has been issued to SWN Production Company, LLC for access to the State Road for a well site located off Ohio County Route 4 SLS MP 2.39.

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 March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Lacy D. Pratt
Central Office O&G CoordinatorCc: Brittany Woody
SWN Production Company, LLC
OM, D-6
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Attachment VI Frac Additives

| Product Name | Product Use | Chemical Name | CAS Number |
|----------------------|---------------------|--|--------------------------|
| HCL | Solvent | Hydrochloric Acid | 7647-01-0 |
| | | Water | 7732-18-5 |
| FSTI-CI-02 | Corrosion Inhibitor | 2-Butoxyethanol | 111-76-2 |
| | | Ethylene glycol | 107-21-1 |
| | | N,N-Dimethylformamide | 68-12-2 |
| | | benzyl chloridequaternized | 72480-70-7 |
| | | Cinnamaldehyde | 104-55-2 |
| | | Isopropyl alcohol | 67-63-0 |
| | | Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)- .omega.-hydroxy- | 9016-45-9 |
| | | 1-Decanol | 112-30-1 |
| | | 1-Octanol | 111-87-5 |
| | | Triethyl phosphate | 78-40-0 |
| Ferriplex 80 | Iron Control | Sodium Erythorbate | 6381-77-7 |
| Tolicide 4Frac | Biocide | Tetrakis(Hydroxymethyl) Phosphonium Sulfate | 55566-30-8 |
| | | Quaternary ammonium compounds | 68424-85-1 |
| | | Ethanol | 64-17-5 |
| | | Water | 7732-18-5 |
| Plexslick 930 | Friction Reducer | Hydrotreated Petroleum Distillate | 64742-47-8 |
| | | Water | 7732-18-5 |
| | | copolymer of 2-propenamide | 69418-26-4 |
| | | Oleic Acid Diethanolamide | 93-83-4 |
| | | Alcohol Ethoxylate Surfactants | 68551-12-2 |
| | | Ammonium Chloride | 12125-02-9 |
| | | Sodium Chloride | 7647-14-5 |
| Plexaid 655NM | Scale Inhibitor | ORGANIC PHOSPHONIC ACIDS SALTS | 15827-60-8 |
| | | Water | 7732-18-5 |
| Plexslick V996 | Friction Reducer | Hydrotreated Petroleum Distillate | 64742-47-8 |
| | | Water | 7732-18-5 |
| | | copolymer of 2-propenamide | 69418-26-4 |
| | | Alcohol Ethoxylate Surfactants | 68551-12-2 |
| | | Sodium Chloride | 7647-14-5 |
| Plexaid 655WG | Scale Inhibitor | ORGANIC PHOSPHONIC ACIDS SALTS | 15827-60-8 |
| | | Water | 7732-18-5 |
| | | Glycerin | 67-56-1 |
| Clearal 270 | Biocide | Glutaraldehyde | 111-30-8 |
| | | Didecyldimethylammonium Chloride | 7173-51-5 |
| | | Quaternary Ammonium compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides | 68424-85-1 |
| | | Ethanol | 64-17-5 |
| | | Water | 7732-18-5 |
| StimSTREAM SC 398 CW | Scale Inhibitor | Ethylene glycol | 107-21-1 |
| | | CHEMSTREAM-Polymer-10001 | CHEMSTREAM-Polymer-10001 |
| | | CHEMSTREAM-Polymer-10002 | CHEMSTREAM-Polymer-10002 |
| | | Water | 7732-18-5 |
| StimSTREAM FR 9800 | Friction Reducer | Chemstream-Alkane-00001 | Chemstream-Alkane-00001 |
| | | Chemstream-Polymer-00001 | Chemstream-Polymer-00001 |
| | | Ethoxylated alcohols (C12-16) | 68551-12-2 |
| | | Water | 7732-18-5 |
| StimSTREAM FR 2800 | Friction Reducer | Distillates (petroleum), hydrotreated light | 64742-47-8 |
| | | Alcohols, C11-14-iso, C13-rich, ethoxylated | 78330-21-9 |
| | | Water | 7732-18-5 |
| StimSTREAM FR 9725 | Friction Reducer | Distillates (petroleum), hydrotreated light | 64742-47-8 |
| | | Ammonium Chloride | 12125-02-9 |
| | | Water | 7732-18-5 |
| StimSTREAM SC 398 C | Scale Inhibitor | CHEMSTREAM-Polymer-10001 | CHEMSTREAM-Polymer-10001 |
| | | CHEMSTREAM-Polymer-10002 | CHEMSTREAM-Polymer-10002 |
| | | Water | 7732-18-5 |

As of 7/5/2023

RECEIVED
Office of Oil and Gas
OCT 15 2024
WV Department of
Environmental Protection

11/22/2024

OPERATOR: SWN Production Co., LLC

WELL NO: Roth OHI 406H

PAD NAME: Roth OHI

REVIEWED BY: _____

SIGNATURE: *Brittany Woody*

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions

**Pad Built 6/13/22*

At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR

DEP Waiver and Permit Conditions

At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR

DEP Waiver and Permit Conditions

At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR

DEP Waiver and Permit Conditions

At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

RECEIVED
Office of Oil and Gas
OCT 15 2024
WV Department of
Environmental Protection

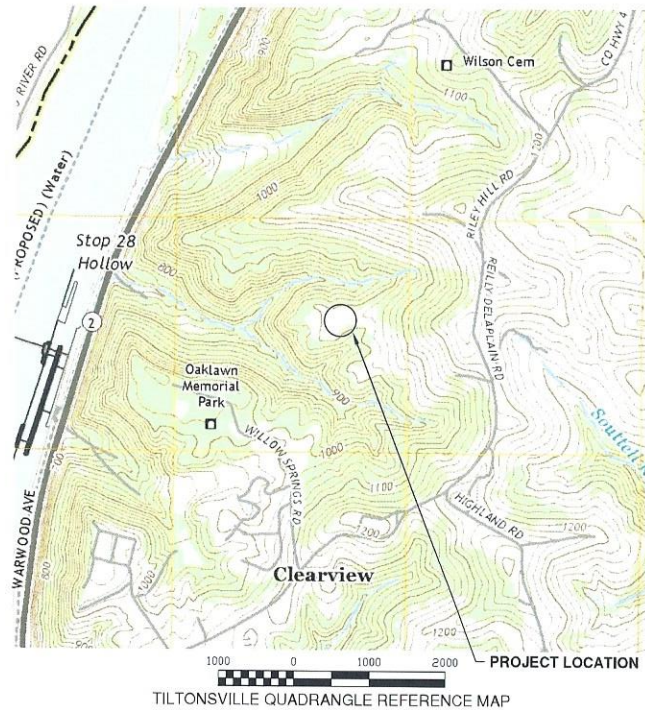
4706900373

SHEET INDEX

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| 3 | EVACUATION PLAN WITHOUT USGS MAP |
| 4 | EVACUATION PLAN WITH USGS MAP |
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| 6 | BOREHOLE LOCATIONS |
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SOUTHWESTERN PRODUCTION COMPANY, LLC
 PROPOSED CONSTRUCTION PLANS FOR
 ROTH PAD
 OHIO COUNTY, WV
 APRIL 2022

| SWN QUICK ESTIMATE | | |
|---|------|---------|
| Description | Unit | Qty |
| MOBILIZATION & DEMOBILIZATION (LIMITED TO 5% OF BASE BID) | LS | 1 |
| CLEARING & GRUBBING | AC | 4.83 |
| TOPSOIL STRIPPING, STOCKPILING, AND REDISTRIBUTION (ASSUMED 10" DEEP) | CY | 22,800 |
| EARTHWORK | CY | 116,500 |
| SOIL TOE KEY 5' DEEP (INCLUDES EXCAVATION, PIPE, STONE, FABRIC, & COLLECTION DRAINS) - (STONE BY SWN) | LF | 4,135 |
| WELL PAD CONTAINMENT BERM | LF | 1,525 |
| SEEDING & MULCHING (INCLUDES FERTILIZER) | AC | 14.50 |
| 1.5" CRUSHER RUN LIMESTONE FOR WELL PAD (4") - (PLACEMENT ONLY, STONE IS PURCHASED BY SWN) | TN | 4,425 |
| AASHTO NO. 1 STONE FOR WELL PAD - (PLACEMENT ONLY, STONE IS PURCHASED BY SWN) | TN | 6,045 |
| 8% CEMENT STABILIZATION FOR WELL PAD (12") | SY | 20,950 |
| 1.5" CRUSHER RUN LIMESTONE FOR AUXILIARY PAD (4") - (PLACEMENT ONLY, STONE IS PURCHASED BY SWN) | TN | 1,005 |
| 8% CEMENT STABILIZATION FOR AUXILIARY PAD (12") | SY | 4,750 |
| 2" OF 12.5 MM WEARING COURSE ASPHALT | TN | 920 |
| 3" OF 25 MM BASE COURSE ASPHALT | TN | 1,380 |
| 8% CEMENT STABILIZATION FOR ACCESS ROAD (12") | SY | 7,880 |
| STABILIZED CONSTRUCTION ENTRANCE - (STONE BY SWN) | EA | 1 |
| GUARDRAIL - INCLUDES (4) TERMINAL ENDS | LF | 3,110 |
| ROCK LINED DITCH - PLACEMENT ONLY - (STONE BY SWN) | LF | 3,890 |
| ROCK CHECK DAMS - PLACEMENT ONLY - (STONE BY SWN) | EA | 18 |
| GRASS LINED DITCH WITH EROSION CONTROL BLANKET | LF | 530 |
| 8" COMPOST FILTER SOCK | LF | 840 |
| 18" COMPOST FILTER SOCK | LF | 3,475 |
| SUPER SILT FENCE | LF | 745 |
| 15" HDPE CULVERT | LF | 150 |
| 24" HDPE CULVERT | LF | 430 |
| 36" HDPE CULVERT | LF | 120 |
| STORM DROP INLET MODIFIED TYPE 'B' | EA | 4 |
| DEWATERING SUMP - COMPLETE (INCLUDES SLOPE PIPE, PIPE LEVEL SPREADERS, BOLLARDS, ETC. PER DETAIL SHEET 42) - (STONE BY SWN) | EA | 6 |
| 12" THICK RIP-RAP SUMP @ STA 119+30 - (STONE BY SWN) | SF | 400 |
| OUTLET PROTECTION - PLACEMENT ONLY - (STONE BY SWN) | EA | 5 |



| LOCAL EMERGENCY SERVICES | |
|--------------------------|------------------|
| NAME: | NUMBER: |
| AMBULANCE | 911 |
| HOSPITAL EMERGENCY ROOM | (304) 243 - 3000 |
| FIRE DEPARTMENT | 911 |
| POLICE DEPARTMENT | 911 |
| POISON CONTROL CENTER | (800) 222 - 1222 |

| LOCATION COORDINATES | | |
|------------------------------|---------------------------|-----------------------------|
| ACCESS ROAD ENTRANCE: | | |
| LATITUDE: 40.151269 N | LONGITUDE: 80.679720 W | (DECIMAL DEGREES) |
| LATITUDE: 40°09'4.57" N | LONGITUDE: 80°40'46.99" W | (DEGREES*MINUTES* SECONDS") |
| NORTHING: 603623.0001 | EASTING: 1638731.6812 | (WV SP-83, FEET) |
| NORTHING: 4444596.01 | EASTING: 527278.58 | (UTM ZONE 17, METERS) |
| WELL PAD CENTER: | | |
| LATITUDE: 40.151112° N | LONGITUDE: 80.686833° W | (DECIMAL DEGREES) |
| LATITUDE: 40°09'04.00" N | LONGITUDE: 80°41'12.60" W | (DEGREES*MINUTES* SECONDS") |
| NORTHING: 603598.6478 | EASTING: 1636759.0887 | (WV SP-83, FEET) |
| NORTHING: 4444578.53 | EASTING: 526677.77 | (UTM ZONE 17, METERS) |

| LIMITS OF DISTURBANCE BY PROPERTY: | | |
|------------------------------------|----------------|-----------------|
| PROPERTY# | PROPERTY OWNER | ACRES DISTURBED |
| 35-04-00R7-0024-0000 | ROTH FARM, LLC | 34.81 AC |

TOTAL DISTURBED AREA: 34.81 ACRES
 ROAD DISTURBED AREA: 24.35 ACRES
 PAD DISTURBED AREA: 10.46 ACRES

| EARTH WORK SUMMARY | |
|-----------------------------------|------------|
| TOTAL CUT: | 116,500 CY |
| TOTAL FILL: | 93,700 CY |
| TOPSOIL: ASSUMED 10" (AVG. DEPTH) | 22,800 CY |

| DRIVING DIRECTIONS | |
|--|--|
| 1) HEAD NORTH ON FORT PIERPONT DR, 0.3 MILES | |
| 2) TURN RIGHT ONTO N PIERPONT RD, 482 FEET | |
| 3) TURN RIGHT ONTO CHEAT RD, 0.8 MILES | |
| 4) TURN LEFT TO MERGE ONTO I-68 W TOWARD I-79, 0.5 MILES | |
| 5) MERGE ONTO I-68 W, 6.1 MILES | |
| 6) TAKE THE EXIT ONTO I-79 N TOWARD WASHINGTON, 45.3 MILES | |
| 7) TAKE THE EXIT ONTO I-70 W/I-79 N TOWARD WASHINGTON, 24.7 MILES | |
| 8) TAKE EXIT 11 COUNTY HIGHWAY 41/DALLAS PIKE, 0.2 MILES | |
| 9) CONTINUE ON DALLAS PIKE, 1.8 MILES | |
| 10) TURN RIGHT ONTO US 40 EAST, 0.9 MILES | |
| 11) TURN LEFT ONTO DIXONS RUN ROAD, 2.8 MILES | |
| 12) TURN LEFT ONTO COUNTY HIGHWAY 33/ DEMENT CEMETARY, 1.2 MILES | |
| 13) TURN RIGHT ONTO WV 88 NORTH, 0.8 MILES | |
| 14) TURN LEFT ONTO GREGGSVILLE, CLINTON, AND POTOMAC ROAD, 1.8 MILES | |
| 15) TURN RIGHT ONTO TABLE ROCK LANE, 1.5 MILES | |
| 16) TURN LEFT ONTO CHERRY HILL ROAD/GLENS RUN ROAD, 0.5 MILES | |
| 17) TURN RIGHT ONTO HIGHLAND ROAD, 0.8 MILES | |
| 18) TURN RIGHT ONTO CLEARVIEW AVE, 0.5 MILES | |

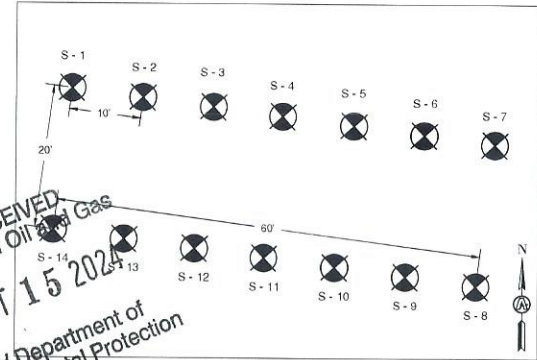
PROJECT COORDINATOR:
 JOHN DUBOWSKI
 CONSTRUCTION SUPERINTENDENT
 SOUTHWESTERN PRODUCTION COMPANY, LLC
 1300 FORT PIERPONT DRIVE, SUITE 201,
 MORGANTOWN, WV 26508
 PHONE: (304) 864 - 1671
 EMAIL: JOHN.DUBOWSKI@SWN.COM

ENGINEER:
 MICHAEL NESTOR, PE
 ASCENT CONSULTING & ENGINEERING
 2361 DAVISSON RUN ROAD
 CLARKSBURG, WV 25301
 PHONE: (304) 933 - 3463
 EMAIL: MIKE@ASCENTCONSULTINGENGINEERS.COM

PROJECT MANAGER:
 ERIC SHORT
 ASCENT CONSULTING & ENGINEERING
 2361 DAVISSON RUN ROAD
 CLARKSBURG, WV 25301
 PHONE: (304) 933 - 3463
 EMAIL: ERIC@ASCENTCONSULTINGENGINEERS.COM

ENVIRONMENTAL:
 WETLANDS OR SURFACE WATER INFORMATION
 WAS DELINEATED BY
 ENVIRONMENTAL SOLUTIONS & INNOVATIONS, INC
 DATED OCTOBER 2021

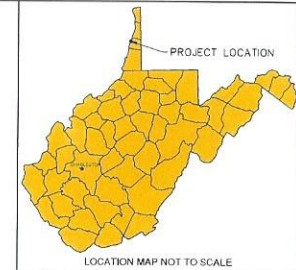
TOPOGRAPHIC INFORMATION:
 HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE
 RADICALLY WEST VIRGINIA STATE PLANES, NORTH
 ZONE, IN U.S. SURVEY FEET.



RECEIVED
 Office of Oil and Gas
 OCT 15 2024
 WV Department of
 Environmental Protection

Site Engineer
 STRADER LOWE
 9/18/2024

WEST VIRGINIA 811
 CALL BEFORE YOU DIG!
 IT'S THE LAW!
 MISS UTILITY OF WEST VIRGINIA
 1-800-245-4848
 WEST VIRGINIA STATE LAW
 (SECTION XIV CHAPTER 24-C)
 REQUIRES THAT YOU CALL TWO
 BUSINESS DAYS BEFORE YOU DIG IN
 THE STATE OF WEST VIRGINIA.
 IT'S THE LAW!!!



| NO. | DATE | DESCRIPTION |
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| 2 | | |
| 1 | | |

PREPARED FOR:
SWN
 Southwestern Energy®

SEAL:

PREPARED BY:

 2361 DAVISSON RUN ROAD
 CLARKSBURG, WV 25301
 WWW.ASCENTCONSULTINGENGINEERS.COM
 (304) 933 - 3463

| PROJECT NUMBER: | 2598 | DRAWN: | KWA |
|--|----------------------|------------|-----|
| DATE: | 4/7/2022 | DESIGN: | EMS |
| SCALE: | AS SHOWN | CHECKED: | MRN |
| CONSTRUCTION PLANS FOR SWN PRODUCTION COMPANY, LLC ROTH PAD OHIO COUNTY, WV | | | |
| TITLE: | COVER SHEET | | |
| PLAN STATUS: | APPROVED FOR PERMITS | SHEET No.: | 1 |