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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, February 24, 2025  
WELL WORK PERMIT  
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC  
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for Sonia R MSH 1001H  
47-051-02534-00-00

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

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

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

A blue ink signature of James A. Martin, written in a cursive style, is positioned above the name and title of the signatory.

James A. Martin  
Chief

Operator's Well Number: Sonia R MSH 1001H  
Farm Name: John C Richards, et ux  
U.S. WELL NUMBER: 47-051-02534-00-00  
Horizontal 6A New Drill  
Date Issued: 2/24/2025

Promoting a healthy environment.

02/28/2025

# 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.

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## CONDITIONS

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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.

02/28/2025

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

1) Well Operator: SWN Production Co., LLC 494512924 051-Marshall 7-Liberty 278-Cameron  
Operator ID County District Quadrangle

2) Operator's Well Number: Sonia R MSH 1001H Well Pad Name: Sonia R MSH

3) Farm Name/Surface Owner: John C. Richards ET UX Public Road Access: Reid Ridge Road

4) Elevation, current ground: 1533' Elevation, proposed post-construction: 1533'

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, Up-Dip well to the North, Target Top TVD- 7304', Target Base TVD- 7348', Anticipated Thickness- 44', Associated Pressure- 4776

8) Proposed Total Vertical Depth: 7330'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 19087'

11) Proposed Horizontal Leg Length: 10,168.85'

12) Approximate Fresh Water Strata Depths: 339'

13) Method to Determine Fresh Water Depths: 47-051-02466 WR-35

14) Approximate Saltwater Depths: 1401' Salinity Profile

15) Approximate Coal Seam Depths: 1168'

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   
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(a) If Yes, provide Mine Info: Name: Marshall county Coal Mine  
Depth: 1168'  
Seam: Pittsburgh  
Owner: Marshall County Coal Resources/American Consolidated Natural Resources  
WV Department of Environmental Protection

*Strader Gower*  
1/21/2025

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#	449'	449' ✓	512 sx/CTS ✓
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J-55	36#	2841'	2841' ✓	1159 sx/CTS
Intermediate Production	5 1/2"	New	P-110 HP	20#	19087'	19087'	Tail 3365sx/ 100' Inside Intermediate

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

PACKERS

Kind:				
Sizes:				
Depths Set:				

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*Strader Gower*  
1/21/2025

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): 28.99

22) Area to be disturbed for well pad only, less access road (acres): 10.32

23) Describe centralizer placement for each casing string:

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

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

See Attachment \*\*\*

25) Proposed borehole conditioning procedures:

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

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\*Note: Attach additional sheets as needed.

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>	<del>XXXXXXXXXX</del>	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>	<del>XXXXXXXXXX</del>	INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6	
	S001	A-7P	CJ10	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4	
INTERMEDIATE	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9	
	0047	FP 28L	<del>XXXXXXXXXX</del>	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4	
	<del>XXXXXXXXXX</del>	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6	
	CemNet	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	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	
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
PRODUCTION	<del>XXXXXXXXXX</del>	55-IIW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4	
	DO47	FP 28L	<del>XXXXXXXXXX</del>	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4	
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	<del>XXXXXXXXXX</del>	FL-66	0501	<del>XXXXXXXXXX</del>	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
	<del>XXXXXXXXXX</del>	BENTONITE	CJ020	<del>XXXXXXXXXX</del>	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	VISCOFIER/ANTI-SETTLING AGENT	REFINED POLYMER/CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	<del>XXXXXXXXXX</del>	CEMENT RETARDER	SUCROSE	57-50-1
	D065	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
	D800	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE	8061-51-6

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**Southwestern Energy Company**

**Proposed Drilling Program**

Well: SONIA R MSH 1001  
 Field: VICTORY FIELD - WET  
 County: MARSHALL  
 SHL (NAD83): 39.787614 Latitude -80.568374 Longitude  
 BHL (NAD83): 39.805565 Latitude -80.599424 Longitude  
 KB Elev: 1,559 ft MSL KB Height: 26 ft AGL GL Elev: 1,533 ft MSL

Drilling Rig: SDC 40  
 Formation: Marcellus Shale  
 State: WV



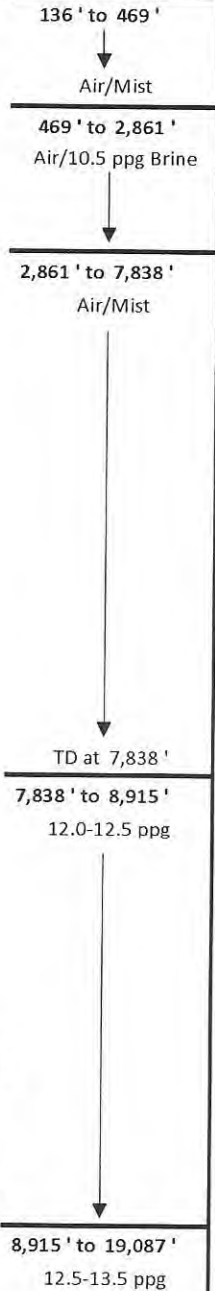
NO COAL VOID EXPECTED  
 Gas Storage Interval: 2,196'-2,641' (Maxton to Base Big Injun)

PROD TOC @ 2,641' 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	13.375	54.4 #	J-55	0'	449'
Intermediate/Coal	9.625	36.0 #	J-55	0'	2,841'
Production	5.5	20.0 #	P-110 HP	0'	19,087'

**CEMENT DETAIL**

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	512	A	15.6
Intermediate	1159	A	15.6/16.0
Production	3365	A	14.5-15.0



KOP at 7,838' MD

Freshwater Depth - 339' TVD  
 Coal Depth - 1,168' TVD  
 Saltwater Depth - 1,401' TVD  
 TVD - 7,330'  
 TMD - 19,087'

7,330' TVD Target Center

TD at 19,087' MD  
 7,330' TVD

Onondaga 7,348' TVD

LP at 8,915' MD  
 SHL Onondaga 7,348' TVD

Created by: Colin Kollker on 12/19/2024

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Strader Gower  
 1/21/2025

02/28/2025

WW-9  
(4/16)

4705102534

API Number 47 - 051 - \_\_\_\_\_  
Operator's Well No. Sonia R MSH 1001H

**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- Wheeling Quadrangle Cameron

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 SOBM from KOP to TD

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

Additives to be used in drilling medium? Attachment 3B ✓

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

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

-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWLD 18781, 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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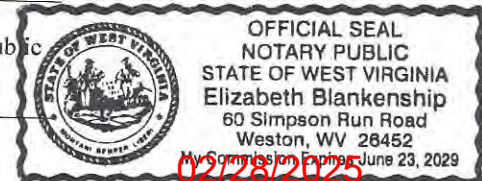
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Environmental Protection

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 28.99 Prevegetation pH \_\_\_\_\_

Lime as determined by pH test min.2 Tons/acre or to correct to pH 10.32

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 *John Gower*

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

Title: Oil & Gas Inspector

Date: 9/18/2024

Field Reviewed?  Yes  No

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# 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: Sonia R MSH 1001H**  
**Cameron QUAD**  
**Liberty DISTRICT**  
**MARSHALL COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody

Date: 8/26/2024

*Brittany Woody*

Title: Staff Regulatory Specialist

SWN Production Co., LLC

Approved by:

Name: STRADER LOWER

Date: 9/18/2024

Title: Oil & Gas Inspector

Approved by:

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

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

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

SWN PRODUCTION COMPANY, LLC – CONFIDENTIAL

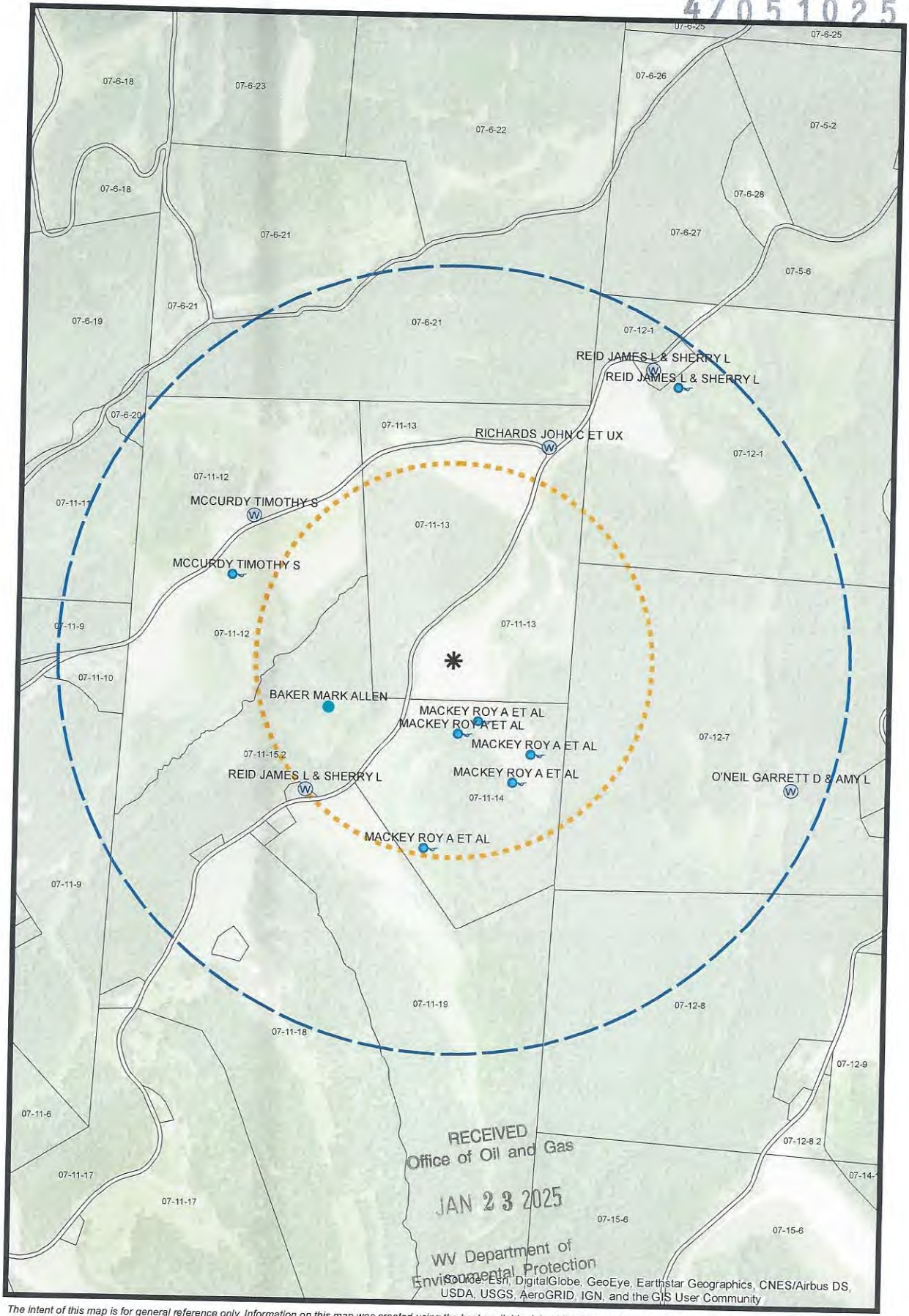
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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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

<b>Water Purveyor Map</b>		Well Pad: <b>Sonia R.</b>	County: <b>Marshall</b>
Map by: youngst	Date: 3/30/2022	<p>1 inch = 812 feet</p>	
Nad 83 UTM Z one 17			

02/28/2025

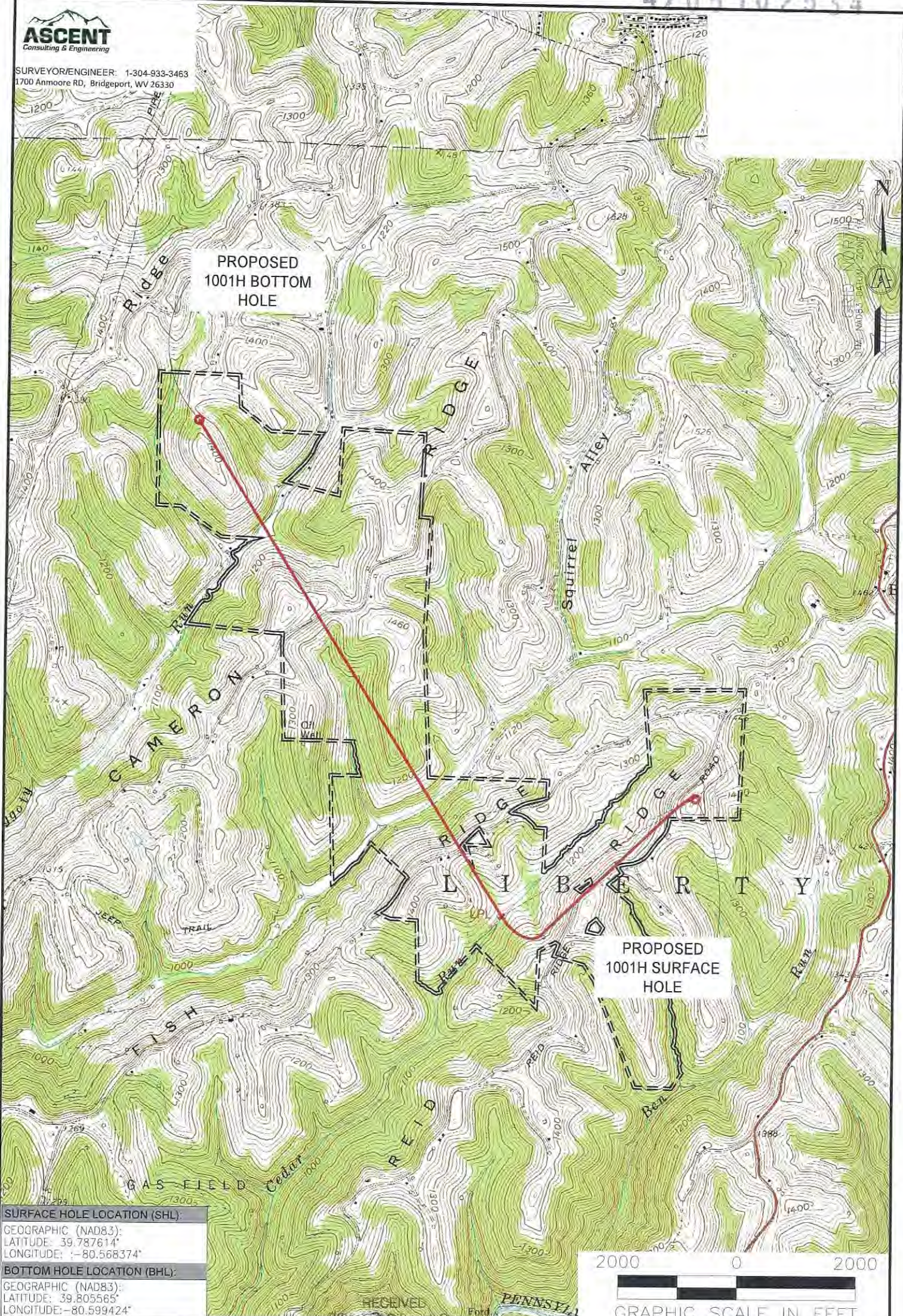
4705102534



SURVEYOR/ENGINEER: 1-304-933-3463  
1700 Anmoore RD, Bridgeport, WV 26330

PROPOSED  
1001H BOTTOM  
HOLE

PROPOSED  
1001H SURFACE  
HOLE



**SURFACE HOLE LOCATION (SHL):**  
 GEOGRAPHIC (NAD83):  
 LATITUDE: 39.787614°  
 LONGITUDE: -80.568374°

**BOTTOM HOLE LOCATION (BHL):**  
 GEOGRAPHIC (NAD83):  
 LATITUDE: 39.805565°  
 LONGITUDE: -80.599424°

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

**LEGEND:**

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

WV Department of Environmental Protection

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: SONIA R MSH	WELL # 1001H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201	COUNTY - CODE MARSHALL - 25	DISTRICT; LIBERTY	
SURFACE OWNER: JOHN C. RICHARDS, et ux	USGS 7 1/2 QUADRANGLE MAP NAME WHEELING, WV		

LATITUDE: 39°47'30"

SURFACE HOLE 7,503'

LATITUDE: 39°50'00"

BOTTOM HOLE 4,519'



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 62°48'12" W	851.07'	SHL TO MONUMENT	STONE MONUMENT
L2	N 48°08'37" E	1,067.50'	SHL TO MONUMENT	STONE MONUMENT
L3	S 57°40'41" W	3,979.60'	SHL TO LPL	SHL TO LPL

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

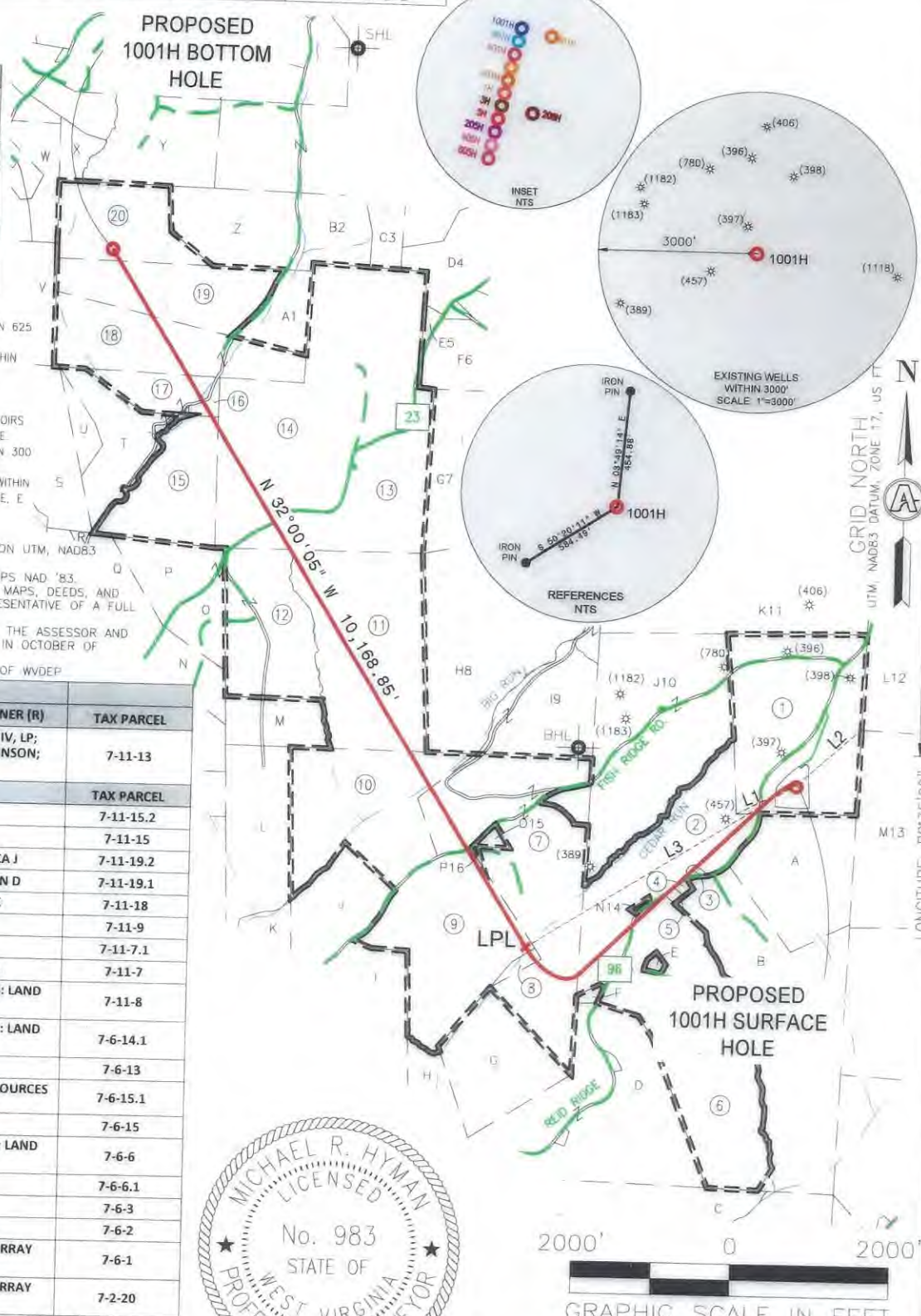
**SURFACE HOLE LOCATION (SHL):**  
 UTM (NAD83, ZONE 17, METERS):  
 NORTHING: 4,404,273.976  
 EASTING: 535,957.438

**LANDING POINT (LPL):**  
 UTM (NAD83, ZONE 17, METERS):  
 NORTHING: 4,403,625.421  
 EASTING: 535,932.396

**BOTTOM HOLE LOCATION (BHL):**  
 UTM (NAD83, ZONE 17, METERS):  
 NORTHING: 4,406,253.882  
 EASTING: 534,289.859

- 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
  - PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE
  - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 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**
- TIES TO WELLS AND CORNERS ARE BASED ON UTM, NAD83 DATUM, ZONE 17, US FT
  - WELL LAT/LONG ESTABLISHED BY DIRECT GPS NAD '83.
  - BOUNDARIES SHOWN ARE TAKEN FROM TAX MAPS, DEEDS, AND FIELD SURVEY. THIS DRAWING IS NOT REPRESENTATIVE OF A FULL BOUNDARY SURVEY.
  - SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF OHIO COUNTY IN OCTOBER OF 2021.
  - WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	JOHN C. RICHARDS, et ux (S) / AMP IV, LP; CYNTHIA SUE DAVIS; FRANK D. ROBINSON; JENNIE ROBINSON (R)	7-11-13
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	BAKER MARK ALLEN	7-11-15.2
3	REID JAMES L ET UX	7-11-15
4	MCCOMBS DOUGLAS R & REBECCA J	7-11-19.2
5	ELSON MATHEW D & MEGAN D	7-11-19.1
6	QUIGLEY DONALD MACK ET UX	7-11-18
7	WILLIAMS LARRY C ET UX	7-11-9
8	WILLIAMS LARRY C ET UX	7-11-7.1
9	MCCOMBS DOUGLAS & DEANA	7-11-7
10	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-11-8
11	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-6-14.1
12	BYARD MARVIN & SHIRLEY	7-6-13
13	MARKWEST LIBERTY MIDSTREAM & RESOURCES LLC	7-6-15.1
14	ALLMAN WANDA L	7-6-15
15	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-6-6
16	SKRYPEK ANTHONY M	7-6-6.1
17	SKRYPEK ANTHONY M	7-6-3
18	SKRYPEK ANTHONY M	7-6-2
19	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	7-6-1
20	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	7-2-20



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.

*Michael R. Hyman*  
 P.S. 983 10-09-2024

COMPANY: **SWN** Production Company, LLC

OPERATOR'S WELL #: **SONIA R MSH 1001H**

API WELL #: **47 51 02534**

STATE COUNTY PERMIT



(+) 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 SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: UPPER OHIO-WHEELING

DISTRICT: LIBERTY COUNTY: MARSHALL

SURFACE OWNER: JOHN C. RICHARDS, et ux

OIL & GAS ROYALTY OWNER: AMP IV, LP; CYNTHIA SUE DAVIS; FRANK D. ROBINSON; JENNIE ROBINSON

ACREAGE: ±83.00

ACREAGE: ±83.00

DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION

CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY) xxxxxxxx

TARGET FORMATION: MARCELLUS

ESTIMATED DEPTH: 7,330 TVD 19,087 TMD

DATE: 10-09-2024

FILE NO:

DRAWN BY: TMF

SCALE: 1" = 2000'

DRAWING NO: ACE-2257

WELL LOCATION PLAT

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC

ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201

CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201

CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

**LEGEND:**

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- EXISTING WATER WELL
- EXISTING SPRING
- SURVEYED BOUNDARY
- DRILLING UNIT
- LEASE BOUNDARY
- PROPOSED PATH

**REVISIONS:**

NO.	DESCRIPTION	DATE



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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	MACKEY ROY A ET AL	7-11-14
B	MCCOMBS DOUGLAS R & REBECCA J	7-11-19
C	HINKLE FAMILY TRUST	7-15-1
D	QUIGLEY DONALD & MATHEWS DIANA	7-11-17
E	QUIGLEY ROBIN ELAINE	7-11-18.1
F	BERESFORD RICKY JAY JR ET UX- TOD	7-11-15.1
G	MCCURDY SUE E EST	7-11-6
H	QUIGLEY ELLEN MARIE	7-11-5
I	MARLING SCOTT C & JESSICA L PARRY	7-11-4
J	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-11-3
K	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-11-2
L	QUIGLEY ROBIN E & DONALD	7-11-1
M	BYARD MARVIN & SHIRLEY	7-6-14
N	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-6-10
O	HOYT CHARLES F	7-6-9.1
P	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-6-9
Q	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-6-10
R	ZWICK MITCHELL	7-6-7
S	SKRYPEK ANTHONY M	7-7-10
T	SKRYPEK ANTHONY M	7-6-5
U	SKRYPEK ANTHONY M	7-6-4
V	JAMISON JEAN	7-7-9.1
W	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-2-7
X	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	7-2-10
Y	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	7-2-19
Z	SKRYPEK ANTHONY M	7-2-21
A1	SKRYPEK ANTHONY M	7-6-1.1
B2	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	7-2-21.1
C3	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	7-2-29
D4	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	7-2-32
E5	ALLMAN WANDA L - TOD	7-6-16.1
F6	DOBBS ERIC SCOTT	7-6-16
G7	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-6-18
H8	REID BARBARA J - TOD	7-6-19
I9	QUIGLEY ELLEN MARIE	7-11-11
J10	MCCURDY TIMOTHY S	7-11-12
K11	STEWART KIMBERLY A	7-6-21
L12	REID JAMES L & SHERRY L	7-12-1
M13	O'NEIL GARRETT D & AMY L	7-12-7
N14	PARKER PETER	7-11-16
O15	WILLIAMS LARRY C ET UX	7-11-9.2
P16	MCCOMBS DOUGLAS & DEANA	7-11-9.1

\*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

02/28/2025

REVISIONS: 4705102534	COMPANY:			
	OPERATOR'S		SONIA R MSH	
	WELL #:		1001H	
	DISTRICT:	COUNTY:	STATE:	DATE: 10-09-2024
	LIBERTY	MARSHALL	WV	DRAWN BY: TMF
				SCALE: N/A
				DRAWING NO: ACE-2257
				WELL LOCATION PLAT

**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"				

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\*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.

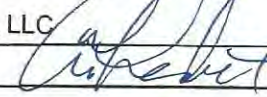
Well Operator: SWN Production Company, LLC  
 By: Timothy F. Ledet   
 Its: Staff Landman

EXHIBIT "A"  
 Sonia R MSH 1001H  
 Marshall 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, L.L.C., Operator

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
1	7-11-13	Evanna Clouston Bennington, widow; Sarah E. Carson, widow; Clarence H. Wise and Bertha Wise, husband and wife; and Robert Williams, single	The Manufacturers Light and Heat Company	at least 1/8 <sup>th</sup> per WV Code §22-6-8	326/468	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation	422/204		
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC	642/281		
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.	662/322		
		Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties, Inc.	675/279		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	33/110		
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC	33/424		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	36/422		
2	7-11-15.2	John P. Reid and Mary C. reid, husband and wife	The Wheeling Natural Gas Company	at least 1/8 <sup>th</sup> per WV Code §22-6-8	130/281	0.0000%
		The Wheeling Natural Gas Company	The Manufacturers Light and Heat Company	148/389		
		The Manufacturers Light and Heat Company	Union Gasoline and Oil Corporation	197/120		
		Union Gasoline and Oil Corporation	The Preston Oil Company	2/136		
		The Preston Oil Company	The Manufacturers Light and Heat Company	2/225		
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation	422/204		
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.	662/322		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC	33/110		
		John P. Reid and Mary C. reid, husband and wife	The Manufacturers Light and Heat Company	353/367		
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation	422/204		
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.	662/322		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC	33/110		

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Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
3	7-11-15	John P. Reid and Mary C. reid, husband and wife	The Manufacturers Light and Heat Company	at least 1/8 <sup>th</sup> per WV Code §22-6-8	353/367	0.0000%
		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Chesapeake Appalachia, LLC	Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		422/204 662/322 33/110	
4	7-11-19.2	Wiley Lowe and Sarah J. Lowe, his wife	J.L. Fisher	at least 1/8 <sup>th</sup> per WV Code §22-6-8	103/369	0.0000%
		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. Chesapeake Appalachia, L.L.C.	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC SWN Production Company, LLC		422/204 642/281 662/322 675/279 33/110 33/424 36/422	
5	7-11-19.1	Wiley Lowe and Sarah J. Lowe, his wife	J.L. Fisher	at least 1/8 <sup>th</sup> per WV Code §22-6-8	103/369	0.0000%
		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. Chesapeake Appalachia, L.L.C.	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC SWN Production Company, LLC		422/204 642/281 662/322 675/279 33/110 33/424 36/422	

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Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
6	7-11-18	Nelson M. Richards and Mildred M. Richards, husband and wife	The Manufacturers Light and Heat Company	at least 1/8 <sup>th</sup> per WV Code §22-6-8	353/403	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties, Inc.		675/279	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	
7	7-11-9	Unleased Owners	n/a	at least 1/8 <sup>th</sup> per WV Code §22-6-8	1202/37	9.7777%
		Dry Ridge Resources, LLC	SWN Production Company, LLC		916/506	
		Linda J. Allen, a married woman dealing in her sole and separate property	SWN Production Company, LLC		931/646	
		Beverly J. Biggio, a married woman dealing in her sole and separate property	SWN Production Company, LLC		933/316	
		Howard E. Williams and Norma L. Williams, husband and wife	SWN Production Company, LLC		926/288	
		D. Vane Starkey, widower	SWN Production Company, LLC		953/587	
		John C. Richards and Sonia M. Richards, husband and wife	SWN Production Company, LLC		956/104	
		John C. Richards and Sonia M. Richards, husband and wife	SWN Production Company, LLC		956/104	
		Linda L. Pettitt, a single woman	SWN Production Company, LLC		955/181	
		Howard R. Birkett, a/k/a Howard Richard Birkett, Jr., and Maureen Susan Birkett, husband and wife	SWN Production Company, LLC		944/259	

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Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
		Phillis E. VanKirk, a married woman dealing in her sole and separate property	SWN Production Company, LLC		933/9	
		Linda L. Stephens, a married woman dealing in her sole and separate property	SWN Production Company, LLC		958/304	
		John George Hoffman and Shirley A. Hoffman, husband and wife	SWN Production Company, LLC		955/531	
		Lawrence Marc Gittings and Brenda Sue Gittings, husband and wife	American Petroleum Partners Operating, LLC		935/221	
		American Petroleum Partners Operating, LLC	SWN Production Company, LLC		42/305	
		Dennis M. Shearer, a married man dealing in his sole and separate property	SWN Production Company, LLC		1029/639	
		Paula J. Webb, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1025/361	
		Margaret H. Gearhart, a single woman	SWN Production Company, LLC		1034/178	
		Nancy A. Clark, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1035/41	
		Jennifer A. Brown, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1035/35	
		Jane E. Sample, a single woman	SWN Production Company, LLC		1103/353	
		Raymond E. Hinerman & Janice L. Hinerman, husband and wife	SWN Production Company, LLC		1103/359	
		Laura L. Rudd, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1105/324	
		Alan P. Reid, a single man	SWN Production Company, LLC		1105/330	
		Annette L. Crump, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1106/104	
		Sandra C. Koontz, a single woman	SWN Production Company, LLC		1102/427	
		Vivian G. McCoy & Charles R. McCoy, wife and husband	SWN Production Company, LLC		1106/122	
		Heather L. Swaney, a married woman, dealing in her sole and separate property	SWN Production Company, LLC		1106/116	

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Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
		Jeanne M. Lee Schauwecker, f/k/a Jeanne Marie Burner, f/k/a Jeanne Marie Lee, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1112/470	
		June A. Reid, a widow	SWN Production Company, LLC		1105/336	
		Mary Lou Williams, a widow	SWN Production Company, LLC		1111/125	
		Elizabeth A. Williams, a single woman	SWN Production Company, LLC		1112/447	
		James L. Reid & Sherry L. Reid, husband and wife	SWN Production Company, LLC		1118/479	
		Robert E. Dodd, III, a single man	SWN Production Company, LLC		1114/432	
		Ryan E. Dodd, a single man	SWN Production Company, LLC		1114/438	
		Karen Sue Vallee, a widow	SWN Production Company, LLC		1120/525	
		Donald Lee Withers, a married man dealing in his sole and separate property	SWN Production Company, LLC		1118/560	
		Sandra S. Cumpston and Keith D. Cumpston, wife and husband	SWN Production Company, LLC		1118/486	
		William G. Withers, III, a married man dealing in his sole and separate property	SWN Production Company, LLC		1118/505	
		Rebecca L. Crow, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1112/459	
		Martin J. Williams, a married man dealing in his sole and separate property	SWN Production Company, LLC		1112/453	
		Samuel N. Williams, a married man dealing in his sole and separate property	SWN Production Company, LLC		1114/450	
		Nancy Ann Fuller, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1118/499	
		Delores V. Lallathin, a single woman	SWN Production Company, LLC		1118/566	
		Nanci Alica Smith, f/k/a Nanci Alica Reid, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1128/252	
		Robert L. Aeby, a single man	SWN Production Company, LLC		1120/519	
		Darci L. Harvey, a widow	SWN Production Company, LLC		1123/681	
		Dustin L. Worth, a married man dealing his sole and separate property	SWN Production Company, LLC		1123/675	

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Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
		Michael E. Aeby, a single man	SWN Production Company, LLC		1126/424	
		Lisa Robin Manriquez, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1129/531	
		Kevin D. Courtright, a single man	SWN Production Company, LLC		1120/531	
		Jean Paul Jules Gaston Marie Auffray a/k/a Jean Paul Auffray, a widower	SWN Production Company, LLC		1128/275	
		Chestnut Holdings Inc., a Florida corporation	SWN Production Company, LLC		1137/209	
		Larry C. Williams and Pamela S. Williams, husband and wife	SWN Production Company, LLC		1138/732	
		Big Run Cemetery	SWN Production Company, LLC		1143/29	
		Steven Michael Cain a/k/a Mike Cain, a married man dealing in his sole and separate property	SWN Production Company, LLC		1143/707	
		Hills Creek Consulting, LLC	SWN Production Company, LLC		1142/53	
		Christi L. Burdette, a single woman	SWN Production Company, LLC		1120/539	
		Angelica M. James, a married woman	SWN Production Company, LLC		1154/195	
		Schylar Leigh-Ann Bush a/k/a Schylar Leigh-Ann Aeby, a single woman	SWN Production Company, LLC		1151/184	
		Jerry Beck, Jr., a single man	SWN Production Company, LLC		1161/495	
		Gerald E. Courtright, a single man	SWN Production Company, LLC		1161/581	
		Mick Reid, a married man dealing in his sole and separate property	SWN Production Company, LLC		1138/209	
		Heraclio I. Martinez, a single man	SWN Production Company, LLC		1141/6	
		Emory Peak Minerals, LLC	SWN Production Company, LLC		1196/256	
		Margaret L. Siburt, POA for Elsie J. Mercer	SWN Production Company, LLC		1193/266	
		Chelcee Horner Brown Separate Share Trust dated May 30, 2018	SWN Production Company, LLC		1185/440	
		Robert D. Williams, a single man	SWN Production Company, LLC		1192/42	
		Barbara McFall, single woman	SWN Production Company, LLC		1118/469	
		Roy L. Reid and Bonita M. Reid, husband and wife	SWN Production Company, LLC		1118/459	
		Cevin S. Bryant and Angela T. Bryant, husband and wife	SWN Production Company, LLC		1118/474	

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02/28/2025

4705102534

EXHIBIT "A"  
 Sonia R MSH 1001H  
 Marshall 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, L.L.C., Operator

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
		Charles Scott Bryant, a single man	SWN Production Company, LLC		1119/560	
		Hope R. Guy and James A. Guy	SWN Production Company, LLC		1118/464	
		Jane McDonald and Michael McDonald	SWN Production Company, LLC		1118/454	
		James C. Reid	SWN Production Company, LLC		1123/654	
		Jack Leroy Cayton, a married man dealing in his sole and separate property	SWN Production Company, LLC		1123/669	
8	7-11-7.1	Evanna Clouston Bennington, widow, Sarah E. Carson, widow, Clarence H. Wise and Bertha Wise, husband and wife, Frank Robinson and Winnie Robinson, husband and wife, Touris L. Nuss, widow, Mary Varden, widow, Alan Williams and Betty Williams, husband and wife, and Robert A. Williams	The Manufacturers Light and Heat Company	at least 1/8 <sup>th</sup> per WV Code §22-6-8	326/461	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties, Inc.		675/279	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	
9	7-11-7	Evanna Clouston Bennington, widow, Sarah E. Carson, widow, Clarence H. Wise and Bertha Wise, husband and wife, Frank Robinson and Winnie Robinson, husband and wife, Touris L. Nuss, widow, Mary Varden, widow, Alan Williams and Betty Williams, husband and wife, and Robert A. Williams	The Manufacturers Light and Heat Company	at least 1/8 <sup>th</sup> per WV Code §22-6-8	326/461	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	

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Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
		Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc.	Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		675/279 33/110 33/424	
10	7-11-8	Chesapeake Appalachia, L.L.C. W. C. Fish and Ruth J. Fish, husband and wife	SWN Production Company, LLC Wheeling Natural Gas Company	at least 1/8 <sup>th</sup> per WV Code §22-6-8	36/422 140/305	0.0000%
		Wheeling Natural Gas Company The Manufacturers Light and Heat Company Union Gasoline & Oil Corporation The Preston Oil Company The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. Chesapeake Appalachia, L.L.C.	The Manufacturers Light and Heat Company Union Gasoline & Oil Corporation The Preston Oil Company The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC SWN Production Company, LLC		148/389 197/120 2/136 2/225 422/204 642/281 662/322 675/279 33/110 33/424 36/422	
11	7-6-14.1	M. E. Davis, widow, Maude Davis, for herself, and Maude Davis as Committee for George W. Davis, Lunatic  L. L. Howard A. H. Johnson and Ross B. Thomas, Special Commissioners and Municipal Gas Company of West Virginia The Cameron Heat & Light Company Cameron Gas Company	L. L. Howard The Cameron Heat & Light Company The Cameron Heat & Light Company Cameron Gas Company The Manufacturers Light and Heat Company	at least 1/8 <sup>th</sup> per WV Code §22-6-8	164/259 166/539 195/360 227/260 351/204	0.0000%

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 Marshall County, West Virginia

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Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. Chesapeake Appalachia, L.L.C.	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC SWN Production Company, LLC		422/204 642/281 662/322 675/279 33/110 33/424 36/422	
12	7-6-13	M. E. Davis, widow, Maude Davis for herself, and Maude Davis as Committee for George W. Davis, Lunatic  L. L. Howard A. H. Johnson and Ross B. Thomas, Special Commissioners and Municipal Gas Company of West Virginia The Cameron Heat & Light Company Cameron Gas Company The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. Chesapeake Appalachia, L.L.C.	L. L. Howard  The Cameron Heat & Light Company The Cameron Heat & Light Company Cameron Gas Company The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC SWN Production Company, LLC	at least 1/8 <sup>th</sup> per WV Code §22-6-8	164/259  166/539 195/360 227/260 351/204 422/204 642/281 662/322 675/279 33/110 33/424 36/422	0.0000%
13	7-6-15.1	J. O. Howard and Cleo Gray Howard, husband and wife  The Manufacturers Light and Heat Company	The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation	at least 1/8 <sup>th</sup> per WV Code §22-6-8	272/260  422/204	0.0000%

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Marshall County, West Virginia

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Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
/ 14	7-6-15	Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
/ 15	7-6-6	J. O. Howard and Cleo Gray Howard, husband and wife	The Manufacturers Light and Heat Company	at least 1/8 <sup>th</sup> per WV Code §22-6-8	272/260	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
/ 15	7-6-6	Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	0.0000%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Ella Welling, widow, and Edna Welling, widow	The Manufacturers Light and Heat Company	at least 1/8 <sup>th</sup> per WV Code §22-6-8	360/219	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties, Inc.		675/279	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	
/ 16	7-6-6.1	Stone Hill Minerals Holdings, LLC	TH Exploration, LLC		894/496	0.0000%
		TH Exploration, LLC	SWN Production Company, LLC		41/299	
		Ella Welling, widow, and Edna Welling, widow	The Manufacturers Light and Heat Company	at least 1/8 <sup>th</sup> per WV Code §22-6-8	360/219	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
/ 16	7-6-6.1	Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	0.0000%
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	

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Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
		Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc.	Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		675/279 33/110 33/424	
		Chesapeake Appalachia, L.L.C. Stone Hill Minerals Holdings, LLC TH Exploration, LLC	SWN Production Company, LLC TH Exploration, LLC SWN Production Company, LLC		36/422 894/496 41/299	
17	7-6-3	Ella Welling, widow, and Edna Welling, widow	The Manufacturers Light and Heat Company	at least 1/8 <sup>th</sup> per WV Code §22-6-8	360/219	0.0000%
		The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc.	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		422/204 642/281 662/322 675/279 33/110 33/424	
		Chesapeake Appalachia, L.L.C. Stone Hill Minerals Holdings, LLC TH Exploration, LLC	SWN Production Company, LLC TH Exploration, LLC SWN Production Company, LLC		36/422 894/496 41/299	
18	7-6-2	Royalty Owners	n/a	at least 1/8 <sup>th</sup> per WV Code §22-6-8	1202/30	19.8888%
		Karen S. Schmelter, a single woman Mary Jo Harper, a single woman Heather E. Harper, a married woman dealing in her sole and separate property David Snell, a married man dealing in his sole and separate property	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC		1102/41 1111/0095 1111/0100 1141/394	

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Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
		Barbara E. Snell, a widow	SWN Production Company, LLC		1142/364	
		Debra Borosky, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1146/23	
		Glen Erick Humenick	SWN Production Company, LLC		1155/147	
		Margaret Konkol, a widow, by her Attorney-in-Fact, Sandra M. Romeo	SWN Production Company, LLC		1162/270	
		Matthew W. Page, married dealing in his sole and separate property	SWN Production Company, LLC		1175/74	
		Anna I. Page, married dealing in her sole and separate property	SWN Production Company, LLC		1175/80	
		Carole Humenick Gilliland, married dealing in her sole and separate property	SWN Production Company, LLC		1194/68	
		Kimberly L. Kozub, single	SWN Production Company, LLC		1206/469	
		Jennifer Kozub Lewandowski, married dealing in her	SWN Production Company, LLC		1206/463	
		Appalachian Royalties, Inc.	The Manufacturers Light and Heat Company		342/496	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	Statohydro USA Onshore Properties, Inc.		675/279	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoh USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	
19	7-6-1	Sarah Jean Hinerman Kingree and Ben Kingree III, her husband	The Manufacturers Light and Heat Company	at least 1/8 <sup>th</sup> per WV Code §22-6-8	353/228	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	Statohydro USA Onshore Properties, Inc.		675/279	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	

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Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
20	7-2-20	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	
		Clarence Chambers and Bessie Chambers, husband and wife, and Lyle Dobbs and Pauline Dobbs, husband and wife		at least 1/8 <sup>th</sup> per WV Code §22-6-8	375/164	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties, Inc.		675/279	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
B	7-11-19	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	
		Wiley Lowe and Sarah J. Lowe, his wife	J.L. Fisher	at least 1/8 <sup>th</sup> per WV Code §22-6-8	103/369	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties, Inc.		675/279	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	
P16	7-11-9.1	Royalty Owners	n/a	at least 1/8 <sup>th</sup> per WV Code §22-6-8	1202/25	13.1111%
		Linda J. Allen, a married woman dealing in her sole and separate property	SWN Production Company, LLC		931/646	

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		Beverly J. Biggio, a married woman dealing in her sole and separate property	SWN Production Company, LLC		933/316	
		D. Vane Starkey, widower	SWN Production Company, LLC		953/587	
		John C. Richards and Sonia M. Richards, husband and wife	SWN Production Company, LLC		956/104	
		John C. Richards and Sonia M. Richards, husband and wife	SWN Production Company, LLC		956/104	
		Linda L. Pettitt, a single woman	SWN Production Company, LLC		955/181	
		Phillis E. VanKirk, a married woman dealing in her sole and separate property	SWN Production Company, LLC		933/9	
		Linda L. Stephens, a married woman dealing in her sole and separate property	SWN Production Company, LLC		958/304	
		John George Hoffman and Shirley A. Hoffman, husband and wife	SWN Production Company, LLC		955/531	
		Lawrence Marc Gittings and Brenda Sue Gittings, husband and wife	American Petroleum Partners Operating, LLC		935/221	
		American Petroleum Partners Operating, LLC	SWN Production Company, LLC		42/305	
		Robert D. Williams, a single man	SWN Production Company, LLC		1052/86	
		Howard E. Williams, a widower	SWN Production Company, LLC		1064/322	
		Jane E. Sample, a single woman	SWN Production Company, LLC		1103/353	
		Raymond E. Hinerman & Janice L. Hinerman, husband and wife	SWN Production Company, LLC		1103/359	
		Laura L. Rudd, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1105/324	
		Alan P. Reid, a single man	SWN Production Company, LLC		1105/330	
		Annette L. Crump, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1106/104	
		Sandra C. Koontz, a single woman	SWN Production Company, LLC		1102/427	
		Vivian G. McCoy & Charles R. McCoy, wife and husband	SWN Production Company, LLC		1106/122	
		Heather L. Swaney, a married woman, dealing in her sole and separate property	SWN Production Company, LLC		1106/116	

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Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
		Jeanne M. Lee Schauwecker, f/k/a Jeanne Marie Burner, f/k/a Jeanne Marie Lee, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1112/470	
		June A. Reid, a widow	SWN Production Company, LLC		1105/336	
		Mary Lou Williams, a widow	SWN Production Company, LLC		1111/125	
		Elizabeth A. Williams, a single woman	SWN Production Company, LLC		1112/447	
		Margaret H. Gearhart, a single woman	SWN Production Company, LLC		1114/444	
		Howard Richard Birkett, Jr. a/k/a Howard R. Birkett & SWN Production Company, LLC	SWN Production Company, LLC		1118/493	
		James L. Reid & Sherry L. Reid, husband and wife	SWN Production Company, LLC		1118/479	
		Robert E. Dodd, III, a single man	SWN Production Company, LLC		1114/432	
		Ryan E. Dodd, a single man	SWN Production Company, LLC		1114/438	
		Karen Sue Vallee, a widow	SWN Production Company, LLC		1120/525	
		Donald Lee Withers, a married man dealing in his sole	SWN Production Company, LLC		1118/560	
		Sandra S. Cumpston and Keith D. Cumpston, wife and SWN Production Company, LLC	SWN Production Company, LLC		1118/486	
		William G. Withers, III, a married man dealing in his s	SWN Production Company, LLC		1118/505	
		Rebecca L. Crow, a married woman dealing in her sol	SWN Production Company, LLC		1112/459	
		Martin J. Williams, a married man dealing in his sole	SWN Production Company, LLC		1112/453	
		Samuel N. Williams, a married man dealing in his sole	SWN Production Company, LLC		1114/450	
		Nancy Ann Fuller, a married woman dealing in her sol	SWN Production Company, LLC		1118/499	
		Delores V. Lallathin, a single woman	SWN Production Company, LLC		1118/566	
		Nanci Alisa Smith, f/k/a Nanci Alisa Reid, a married w	SWN Production Company, LLC		1128/252	
		Robert L. Aeby, a single man	SWN Production Company, LLC		1120/519	
		Darci L. Harvey, a widow	SWN Production Company, LLC		1123/681	
		Dustin L. Worth, a married man dealing his sole and s	SWN Production Company, LLC		1123/675	
		Michael E. Aeby, a single man	SWN Production Company, LLC		1126/424	
		Lisa Robin Manriquez, a married woman dealing in he	SWN Production Company, LLC		1129/531	
		Kevin D. Courtright, a single man	SWN Production Company, LLC		1120/531	
		Jean Paul Jules Gaston Marie Auffray a/k/a Jean Paul	SWN Production Company, LLC		1128/275	
		Chestnut Holdings Inc., a Florida corporation	SWN Production Company, LLC		1137/209	

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Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
		Larry C. Williams and Pamela S. Williams, husband and wife	SWN Production Company, LLC		1138/732	
		Big Run Cemetery	SWN Production Company, LLC		1143/29	
		Steven Michael Cain a/k/a Mike Cain, a married man	SWN Production Company, LLC		1143/707	
		Hills Creek Consulting, LLC	SWN Production Company, LLC		1142/53	
		Christi L. Burdette, a single woman	SWN Production Company, LLC		1120/539	
		Angelica M. James, a married woman	SWN Production Company, LLC		1154/195	
		Schylar Leigh-Ann Bush a/k/a Schylar Leigh-Ann Aeby	SWN Production Company, LLC		1151/184	
		Paula J. Webb, a married woman dealing in her sole and separate property	SWN Production Company, LLC		1157/411	
		Jerry Beck, Jr., a single man	SWN Production Company, LLC		1161/495	
		Gerald E. Courtright, a single man	SWN Production Company, LLC		1161/581	
		Mick Reid, a married man dealing in his sole and separate property	SWN Production Company, LLC		1138/209	
		Heraclio J. Martinez, a single man	SWN Production Company, LLC		1141/6	
		Dry Ridge Resources, LLC	SWN Production Company, LLC		1143/35	
		Margaret L. Siburt, POA for Elsie J. Mercer	SWN Production Company, LLC		1193/266	
		Chelcee Horner Brown Separate Share Trust dated 10/1/03	SWN Production Company, LLC		1185/440	
		Dennis M. Shearer, a married man dealing in his sole and separate property	SWN Production Company, LLC		1126/418	
		Barbara McFall, single woman	SWN Production Company, LLC		1118/469	
		Roy L. Reid and Bonita M. Reid, husband and wife	SWN Production Company, LLC		1118/459	
		Cevin S. Bryant and Angela T. Bryant, husband and wife	SWN Production Company, LLC		1118/474	
		Charles Scott Bryant, a single man	SWN Production Company, LLC		1119/560	
		Hope R. Guy and James A. Guy	SWN Production Company, LLC		1118/464	
		Jane McDonald and Michael McDonald	SWN Production Company, LLC		1118/454	
		James C. Reid	SWN Production Company, LLC		1123/654	
		Jack Leroy Cayton, a married man dealing in his sole and separate property	SWN Production Company, LLC		1123/669	

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

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EXHIBIT "A"  
Sonia R MSH 1001H  
Marshall 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, L.L.C., Operator

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by Southwestern Production Company, LLC
*Potentially Impacted Parcels - Parcels that may be impacted during drilling.						

End of Exhibit "A"

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**SWN**  
Production Company™

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

December 5, 2024

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

**RE:** SWN's proposed New Well: Sonia R MSH 1001H in Marshall County, West Virginia, Drilling under Reid Ridge Road, Fish Ridge Road, Cameron Ridge Road, and Maggoty Run 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 Reid Ridge Road, Fish Ridge Road, Cameron Ridge Road, and Maggoty Run 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,

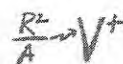


Timothy F. Ledet  
Staff Landman  
SWN Production Company, LLC

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

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**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:** Moundsville Daily Echo

**Public Notice Date:** September 19, 2024 & September 26, 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:** Sonia R MSH 1001H

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

**Business Conducted:** Natural gas production.

**Location –**

State: West Virginia County: Marshall  
District: Liberty Quadrangle: Cameron  
UTM Coordinate NAD83 Northing: 4,404,274  
UTM coordinate NAD83 Easting: 536,957  
Watershed: Upper Ohio- Wheeling

**Coordinate Conversion:**  
To convert the coordinates above into longitude and latitude, visit: [http://tagis.dep.wv.gov/convert/1/utm\\_conus.php](http://tagis.dep.wv.gov/convert/1/utm_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 57<sup>th</sup> 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](mailto: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 57<sup>th</sup> 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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx)

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

Date of Notice Certification: 1/22

API No. 47- 051 - \_\_\_\_\_  
Operator's Well No. Sonia R MSH 1001H  
Well Pad Name: Sonia R MSH

**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>536,957.438</u>
County: <u>051-Marshall</u>	Northing: <u>4,404,273.976</u>
District: <u>Liberty</u>	Public Road Access: <u>Reid Ridge Road</u>
Quadrangle: <u>Cameron</u>	Generally used farm name: <u>Sonia R MSH</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		<b>OOG OFFICE USE ONLY</b> <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
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**Required Attachments:**

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

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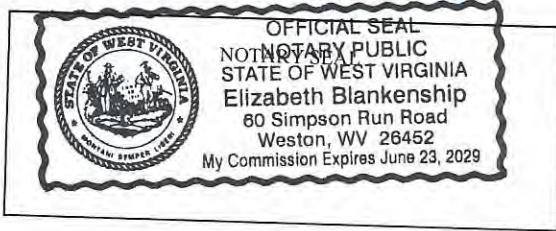
4705102534

**Certification of Notice is hereby given:**

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

Well Operator: SWN Production Co., LLC  
By: Brittany Woody  
Its: Staff Regulatory Analyst  
Telephone: 304-884-1610

Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Facsimile: 304-884-1690  
Email: Brittany\_Woody@swn.com



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 [deprivacyofficer@wv.gov](mailto:deprivacyofficer@wv.gov).

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

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

Date of Notice: 1/22 Date Permit Application Filed: 1/22

Notice of:

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

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

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

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

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

SURFACE OWNER(s)  
Name: John & Sonia Richards  
Address: 837 McQueen Boulevard  
St. Albans, WV 25177  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
Name: ACNR Attn: Steve Bair  
Address: 46226 National Road  
St. Clairsville, OH 43950

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: See Attachment 13A  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: TC Energy Attn: Brent Criser  
Address: 1700 MacCorkle Ave SE Office 518  
Charleston WV 25314

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\*Please attach additional forms if necessary

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**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

**Well Location Restrictions**

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

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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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

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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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**Notice is hereby given by:**

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610

Email: Brittany\_Woody@swn.com

*Brittany Woody*

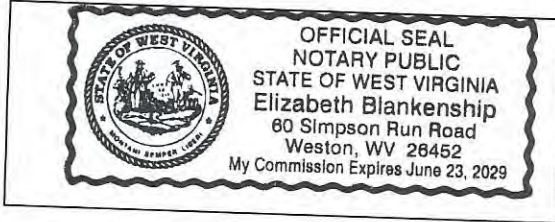
Address: 1300 Fort Pierpont Dr., Suite 201

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 [deprivacyofficer@wv.gov](mailto:deprivacyofficer@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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WV Department of  
Environmental Protection

02/28/2025

**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:** 8/20/2024      **Date of Planned Entry:** 8/27/2024

**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: John & Sonia Richards  
 Address: 837 McQueen Boulevard  
St. Albans, WV 25177  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: ACNR Attn: Steve Bair  
 Address: 46226 National Road, St.  
Clairsville, OH 43950

MINERAL OWNER(s)

Name: AMP IV, LP  
 Address: 225 Ross St, Suite 301  
Pittsburgh PA 15219

\*please attach additional forms if necessary

**Notice is hereby given:**

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

State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>39.787413, -80.568383</u>
County:	<u>Marshall</u>	Public Road Access:	<u>Reid Ridge Road</u>
District:	<u>Liberty</u>	Watershed:	<u>Upper Ohio- Wheeling</u>
Quadrangle:	<u>Cameron</u>	Generally used farm name:	<u>Sonia R MSH</u>

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

**Notice is hereby given by:**

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

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

RECEIVED  
Office of Oil and Gas

JAN 23 2025

WV Department of  
Environmental Protection

**Oil and Gas Privacy Notice:**

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

02/28/2025

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**Notice is hereby provided to:**

<input type="checkbox"/> SURFACE OWNER(s) Name: _____ Address: _____  Name: _____ Address: _____  Name: _____ Address: _____	<input type="checkbox"/> COAL OWNER OR LESSEE Name: _____ Address: _____  <input checked="" type="checkbox"/> MINERAL OWNER(s) Name: <u>Cynthia Sue Davis</u> Address: <u>751 Glenn Street</u> <u>Canonsburg, PA 15317</u> *please attach additional forms if necessary
--	---

**Notice is hereby given:**

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

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.787413, -80.568383</u>
County: <u>Marshall</u>	Public Road Access: <u>Reid Ridge Road</u>
District: <u>Liberty</u>	Watershed: <u>Upper Ohio- Wheeling</u>
Quadrangle: <u>Cameron</u>	Generally used farm name: <u>Sonia R MSH</u>

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Office of Oil and Gas

**Notice is hereby given by:**

Well Operator: <u>SWN PRODUCTION COMPANY, LLC</u>	Address: <u>1300 Fort Pierpont Dr., Suite 201</u>
Telephone: <u>304-884-1610</u>	<u>Morgantown, WV 26508</u>
Email: <u>Brittany_Woody@swn.com</u>	Facsimile: <u>304-884-1690</u>

JAN 23 2025

WV Department of  
Environmental Protection

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02/28/2025

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**Notice is hereby provided to:**

- SURFACE OWNER(s)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_
- COAL OWNER OR LESSEE  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_
- MINERAL OWNER(s)  
Name: Frank D. Robinson  
Address: 861 Ridge Road  
Waynesburg, PA 15370  
\*please attach additional forms if necessary

**Notice is hereby given:**

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County: <u>Marshall</u>	Public Road Access: <u>Reid Ridge Road</u>
District: <u>Liberty</u>	Watershed: <u>Upper Ohio- Wheeling</u>
Quadrangle: <u>Cameron</u>	Generally used farm name: <u>Sonia R MSH</u>

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**Notice is hereby given by:**

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

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

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02/28/2025

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**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
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**Date of Notice:** 8/20/2024      **Date of Planned Entry:** 8/27/2024

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- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

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**Notice is hereby provided to:**

SURFACE OWNER(s)

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

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

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

COAL OWNER OR LESSEE

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

MINERAL OWNER(s)

Name: Jennie Robinson  
Address: 25p Old Plank Road  
Washington, PA 15301

\*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  
County: Marshall  
District: Liberty  
Quadrangle: Cameron

Approx. Latitude & Longitude: 39.787413, -80.568383  
Public Road Access: Reid Ridge Road  
Watershed: Upper Ohio- Wheeling  
Generally used farm name: Sonia R MSH

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

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**Notice is hereby given by:**

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

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

JAN 23 2025

WV Department of  
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02/28/2025

**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:** 09/18/2024 **Date Permit Application Filed:** 1/21

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

HAND DELIVERY  CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: John & Sonia Richards  
Address: 837 McQueen Boulevard  
St. Albans, WV 25177

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: West Virginia  
County: Marshall  
District: Liberty  
Quadrangle: Cameron 7.5", WV  
Watershed: Upper Ohio - Wheeling

UTM NAD 83 Easting: 536,957.438  
Northing: 4,404,273.976  
Public Road Access: Fish Ridge Road  
Generally used farm name: Sonia R. MSH

**This Notice Shall Include:**

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

**Notice is hereby given by:**

Well Operator: SWN Production Company, LLC  
Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Telephone: 304-231-8329  
Email: reid\_croft@swn.com  
Facsimile: \_\_\_\_\_

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

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JAN 23 2025

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:** 09/18/2024 **Date Permit Application Filed:** 1/22

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

- CERTIFIED MAIL  
RETURN RECEIPT REQUESTED
- HAND  
DELIVERY

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

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

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

Name: John & Sonia Richards  
Address: 837 McQueen Boulevard  
St. Albans, WV 25177

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

**Notice is hereby given:**

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

State: West Virginia  
County: Marshall  
District: Liberty  
Quadrangle: Cameron 7.5", WV  
Watershed: Upper Ohio - Wheeling

UTM NAD 83 Easting: 536,957.438  
Northing: 4,404,273.976  
Public Road Access: Fish Ridge Road  
Generally used farm name: Sonia R. MSH

**This Notice Shall Include:**

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

Well Operator: 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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Environmental Protection  
**02/28/2025**

4705102534



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office 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 Highways

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

September 9, 2024

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

Subject: DOH Permit for the Sonia R Well Pad, Marshall County  
Sonia R MSH 1001H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2022-0215 which has been issued to SWN Production Company, LLC for access to the State Road for a well site located off Marshall County Route 96 SLS MP 3.50.

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 Coordinator

Cc: Brittany Woody  
SWN Production Company, LLC  
OM, D-6  
File

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JAN 23 2025

WV Department of  
Environmental Protection



4705102534

## 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

JAN 23 2025

WV Department of  
Environmental Protection

02/28/2025

OPERATOR: SWN Production Co., LLC

WELL NO: Sonia R MSH 1001H

PAD NAME: Sonia R MSH

REVIEWED BY: \_\_\_\_\_

SIGNATURE: *Brittany Woody*

### WELL RESTRICTIONS CHECKLIST

#### HORIZONTAL 6A WELL

#### Well Restrictions

**\*\*Pad Built 12-23-2022**

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

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Office of Oil and Gas

FEB 23 2025