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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, November 25, 2024  
WELL WORK PERMIT  
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC  
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for SHANNON FIELDS OHI 3H  
47-069-00375-00-00

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, Chief, is written over a white background.

James A. Martin  
Chief

Operator's Well Number: SHANNON FIELDS OHI 3H  
Farm Name: SWN PRODUCTION COMPANY  
U.S. WELL NUMBER: 47-069-00375-00-00  
Horizontal 6A New Drill  
Date Issued: 11/25/2024

Promoting a healthy environment.

11/29/2024

# PERMIT CONDITIONS

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

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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.

11/29/2024

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 069-Ohio 005-Rich 674-Wheeling  
Operator ID County District Quadrangle

2) Operator's Well Number: Shannon Fields OHI 3H Well Pad Name: Shannon Fields OHI

3) Farm Name/Surface Owner: SWN Production Company, LLC Public Road Access: Boggs Hill Road (County Route 15/1)

4) Elevation, current ground: 1236' Elevation, proposed post-construction: 1236'

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- 6023', Target Base TVD- 6082', Anticipated Thickness- 59', Associated Pressure- 3953

8) Proposed Total Vertical Depth: 6067'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 32319'

11) Proposed Horizontal Leg Length: 25,048.49'

12) Approximate Fresh Water Strata Depths: 351'

13) Method to Determine Fresh Water Depths: Deepest Nearby Water Well & Salinity Profile Analysis on Timmy Minch OHI 3H API 47-069-00155

14) Approximate Saltwater Depths: 601' Salinity Profile

15) Approximate Coal Seam Depths: 482'

16) Approximate Depth to Possible Void (coal mine, karst, other): Possible Void 482'

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

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

*John C. ...*  
*STRATA CORP*  
*9/18/2024*

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#	520'	520' ✓	594 sx/CTS ✓
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1930'	1930' ✓	767 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	32319'	32319' ✓	Tail 6177sx/100' Inside Intermediate
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.330	1730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.352	3520	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360 ✓	10500	Class A	1.19/10-15% Excess
Tubing							
Liners							

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OCT 24 2024

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

*Steel b.p.  
STRADER COVER  
9/18/2024*

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

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

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production units, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 12,500 psi @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 20.94

22) Area to be disturbed for well pad only, less access road (acres): 17

23) Describe centralizer placement for each casing string:

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

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

See Attachment \*\*\*

Produced  
Oil & Gas

OCT 24 2024

Shannon Fields OHI

25) Proposed borehole conditioning procedures:

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

\*Note: Attach additional sheets as needed.

4706900375

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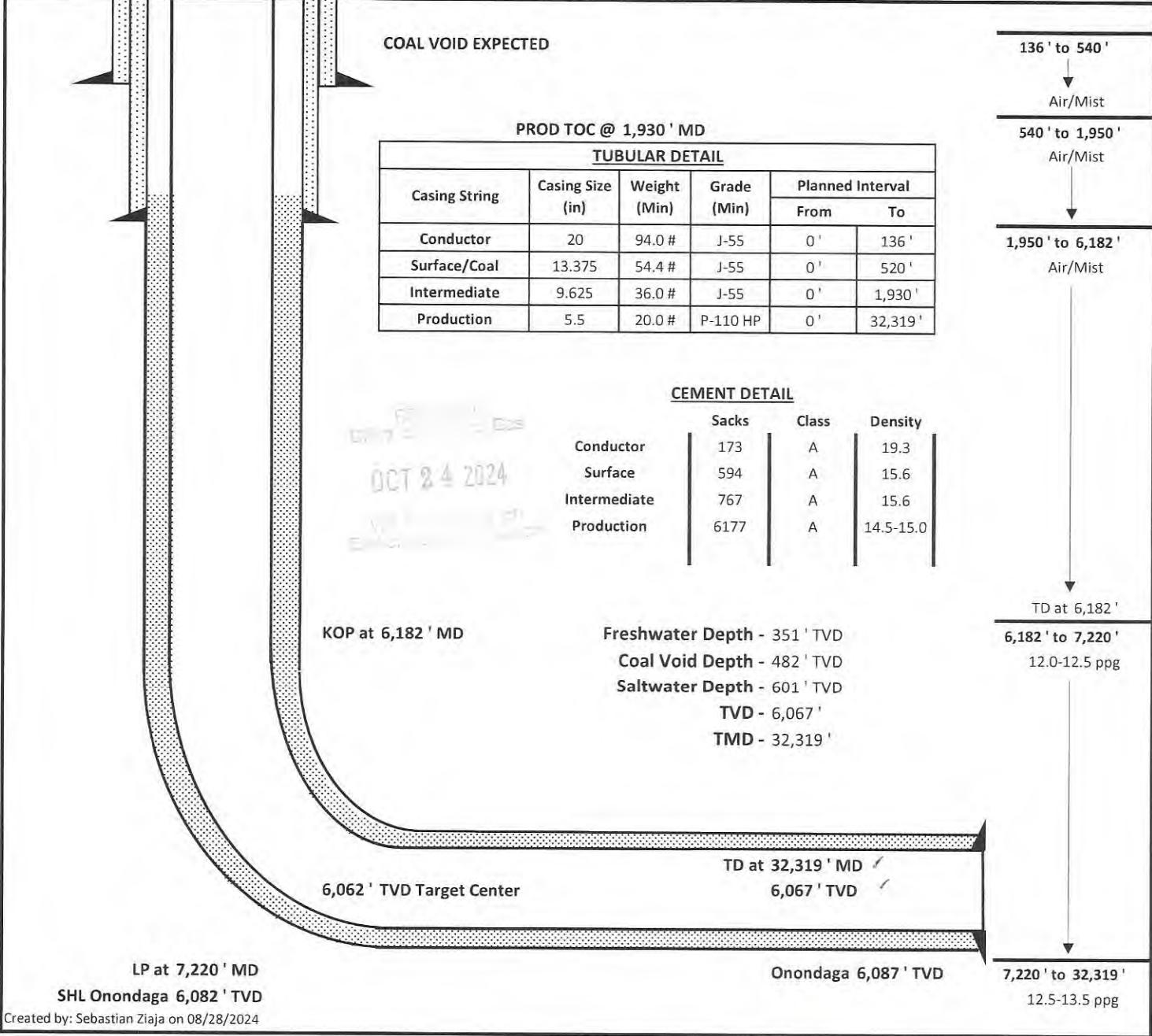
OCT 24 2024

WV DEPARTMENT OF  
Environmental Protection

CEMENT ADDITIVES						
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER 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	CJ110	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
PRODUCTION	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	<del>XXXXXXXXXX</del>	55-IIW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	<del>XXXXXXXXXX</del>	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	<del>XXXXXXXXXX</del>	FL-66	0501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
	<del>XXXXXXXXXX</del>	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	<del>XXXXXXXXXX</del>	VISCOSI FIER/ANTI-SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3	<del>XXXXXXXXXX</del>	CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>		DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE
D800	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>		CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE	8061-51-6

11/29/2024

<b>Southwestern Energy Company</b>			<b>Proposed Drilling Program</b>		
<b>Well:</b>	SHANNON FIELDS OHI 3		<b>Drilling Rig:</b>	SDC 41	
<b>Field:</b>	PANHANDLE FIELD - WET		<b>Formation:</b>	Marcellus Shale	
<b>County:</b>	OHIO		<b>State:</b>	WV	
<b>SHL (NAD83):</b>	40.088361 Latitude	-80.657858 Longitude			
<b>BHL (NAD83):</b>	40.150367 Latitude	-80.699019 Longitude			
<b>KB Elev:</b>	1,262 ft MSL	<b>KB Height:</b> 26 ft AGL	<b>GL Elev:</b>	1,236 ft MSL	



COAL VOID EXPECTED

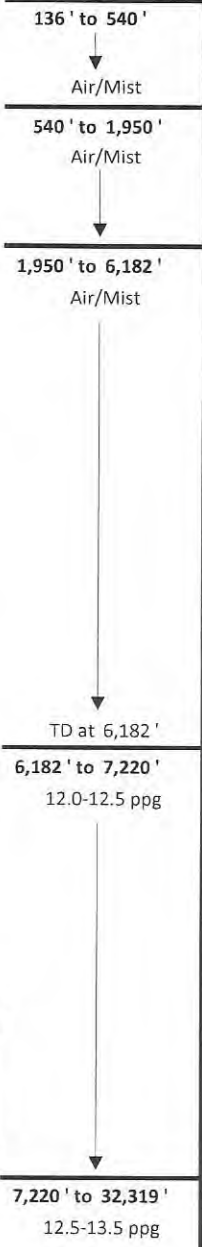
PROD TOC @ 1,930' MD

TUBULAR DETAIL					
Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	136'
Surface/Coal	13.375	54.4 #	J-55	0'	520'
Intermediate	9.625	36.0 #	J-55	0'	1,930'
Production	5.5	20.0 #	P-110 HP	0'	32,319'

**CEMENT DETAIL**

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	594	A	15.6
Intermediate	767	A	15.6
Production	6177	A	14.5-15.0

OCT 24 2024



KOP at 6,182' MD

Freshwater Depth - 351' TVD  
 Coal Void Depth - 482' TVD  
 Saltwater Depth - 601' TVD  
 TVD - 6,067'  
 TMD - 32,319'

6,062' TVD Target Center

TD at 32,319' MD ✓  
 6,067' TVD ✓

LP at 7,220' MD  
 SHL Onondaga 6,082' TVD

Onondaga 6,087' TVD

7,220' to 32,319'  
 12.5-13.5 ppg

Created by: Sebastian Ziaja on 08/28/2024

*Steve Obene*  
 STRADER LOWER  
 9/18/2024

4706900375

WW-9  
(4/16)

API Number 47 - 069 - \_\_\_\_\_  
Operator's Well No. Shannon Fields OHI 3H

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC OP Code 494512924

Watershed (HUC 10) Upper Ohio South Quadrangle Wheeling

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 SOB from KOP to TD

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

Additives to be used in drilling medium? Attachment 3B

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

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

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

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

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

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

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

Company Official Signature *Brittany Woody*  
Company Official (Typed Name) Brittany Woody  
Company Official Title Staff Regulatory Specialist

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 20.94 Prevegetation pH \_\_\_\_\_

Lime as determined by pH test min.2 Tons/acre or to correct to pH 17

Fertilizer type 10-20-20

Fertilizer amount 600/500 lbs/acre

Mulch Hay/Straw Tons/acre

*Oil & Gas*  
**OCT 24 2024**  
*Department of Environmental Protection*

**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: Stetson Gowers STRADGER GOWER

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

Title: Oil & Gas Inspector

Date: 9/18/2024

Field Reviewed?  Yes       No

# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

4706900375



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

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OCT 24 2024  
West Virginia Department of  
Environmental Protection

**API NO. 47-XXX-XXXXX**  
**WELL NAME: Shannon Fields OHI 3H**  
**Wheeling QUAD**  
**Richland DISTRICT**  
**Ohio COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody

Date: 8/28/2024

*Brittany Woody*

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: STRADER GOWER

Date: 9/18/2024

Title: Oil & Gas Inspectors

Approved by:

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

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

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

SWN PRODUCTION COMPANY, LLC – CONFIDENTIAL

11/29/2024



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



**SURFACE HOLE LOCATION (SHL):**

GEOGRAPHIC (NAD83):  
LATITUDE: 40.088361°  
LONGITUDE: -80.657858°

**BOTTOM HOLE LOCATION (BHL):**

GEOGRAPHIC (NAD83):  
LATITUDE: 40.149658°  
LONGITUDE: -80.698772°

**NOTES ON SURVEY**

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

**LEGEND:**

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL\* LANDING POINT LOCATION
- EXISTING WATER WELL
- EXISTING SPRING
- DRILLING UNIT
- LEASE BOUNDARY
- AS DRILLED PATH
- PROPOSED PATH
- DHP BUFFER

11/29/2024

WELL OPERATOR:  
SWN PRODUCTION COMPANY, LLC  
ADDRESS:  
1300 FORT PIERPONT DRIVE, SUITE 201  
SURFACE OWNER:  
SWN PRODUCTION COMPANY, LLC

WELL (FARM) NAME: <b>SHANNON FIELDS OHI</b>	WELL # <b>3H</b>	SERIAL # <b>XXXX</b>
COUNTY - CODE <b>OHIO - 35</b>	DISTRICT; <b>RICHLAND</b>	
USGS 7 1/2 QUADRANGLE MAP NAME <b>WHEELING, WV</b>		

LATITUDE: 40°07'30"

SURFACE HOLE 9,191'

LATITUDE: 40°10'00"

BOTTOM HOLE 8,972'



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

**SURFACE HOLE LOCATION (SHL):**

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,437,620.565  
EASTING: 529,167.475

**LANDING POINT (LPL):**

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,437,368.620  
EASTING: 528,353.578

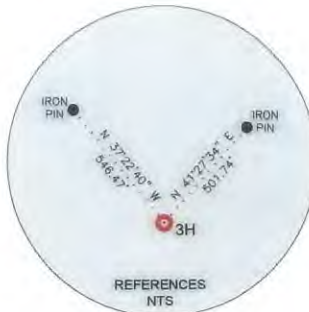
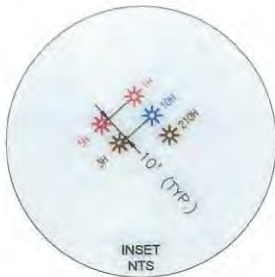
**BOTTOM HOLE LOCATION (BHL):**

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,444,411.517  
EASTING: 525,656.495

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 75°05'24" W	743.36'	SHL TO MONUMENT	STONE
L2	N 27°31'22" E	979.10'	SHL TO MONUMENT	CONCRETE MONUMENT

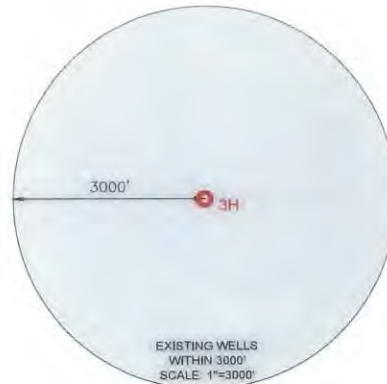
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 72°48'00" W	2,795.27'	3,219.21'	SHL TO LPL
L4	N 25°39'56" W	9,599.61'	9,599.61'	LPL TO AZL1
L5	N 24°56'09" W	72.67'	72.67'	AZL1 TO AZL2
L6	N 24°12'41" W	2,912.27'	2,912.27'	AZL2 TO AZL3
L7	N 20°11'27" W	338.98'	339.14'	AZL3 TO AZL4
L8	N 17°25'29" W	6,075.50'	6,075.50'	AZL4 TO AZL5
L9	N 16°17'58" W	112.46'	112.46'	AZL5 TO AZL6
L10	N 15°10'28" W	5,709.68'	5,709.68'	AZL6 TO BHL

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



**WELL RESTRICTIONS**

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



**NOTES ON SURVEY**

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

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

*Michael R. Hyman* 09-24-2024

P.S. 983



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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

SHANNON FIELDS OHI  
OPERATOR'S WELL #: 3H  
API WELL #: 47 STATE 69 COUNTY 00375 H&A PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1235.77

DISTRICT: RICHLAND COUNTY: OHIO QUADRANGLE: WHEELING 7.5', WV

SURFACE OWNER: SWN PRODUCTION COMPANY, LLC ACREAGE: ±35.07

OIL & GAS ROYALTY OWNER: SHANNON FIELDS, LLC ACREAGE: ±35.07

DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORM **11/29/2024**

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,067 TVD 32,052 TMD

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

LEGEND:	REVISIONS:	DATE:
PROPOSED SURFACE HOLE / BOTTOM HOLE		09-24-2024
EXISTING / PRODUCING WELLHEAD		
LANDING POINT LOCATION		
EXISTING WATER WELL		
EXISTING SPRING		
SURVEYED BOUNDARY		
DRILLING UNIT		
LEASE BOUNDARY		
PROPOSED PATH		
		DRAWN BY: TMF
		SCALE: 1" = 2000'
		DRAWING NO: ACE-2326
		WELL LOCATION PLAT 1

BOTTOM HOLE 6,195'

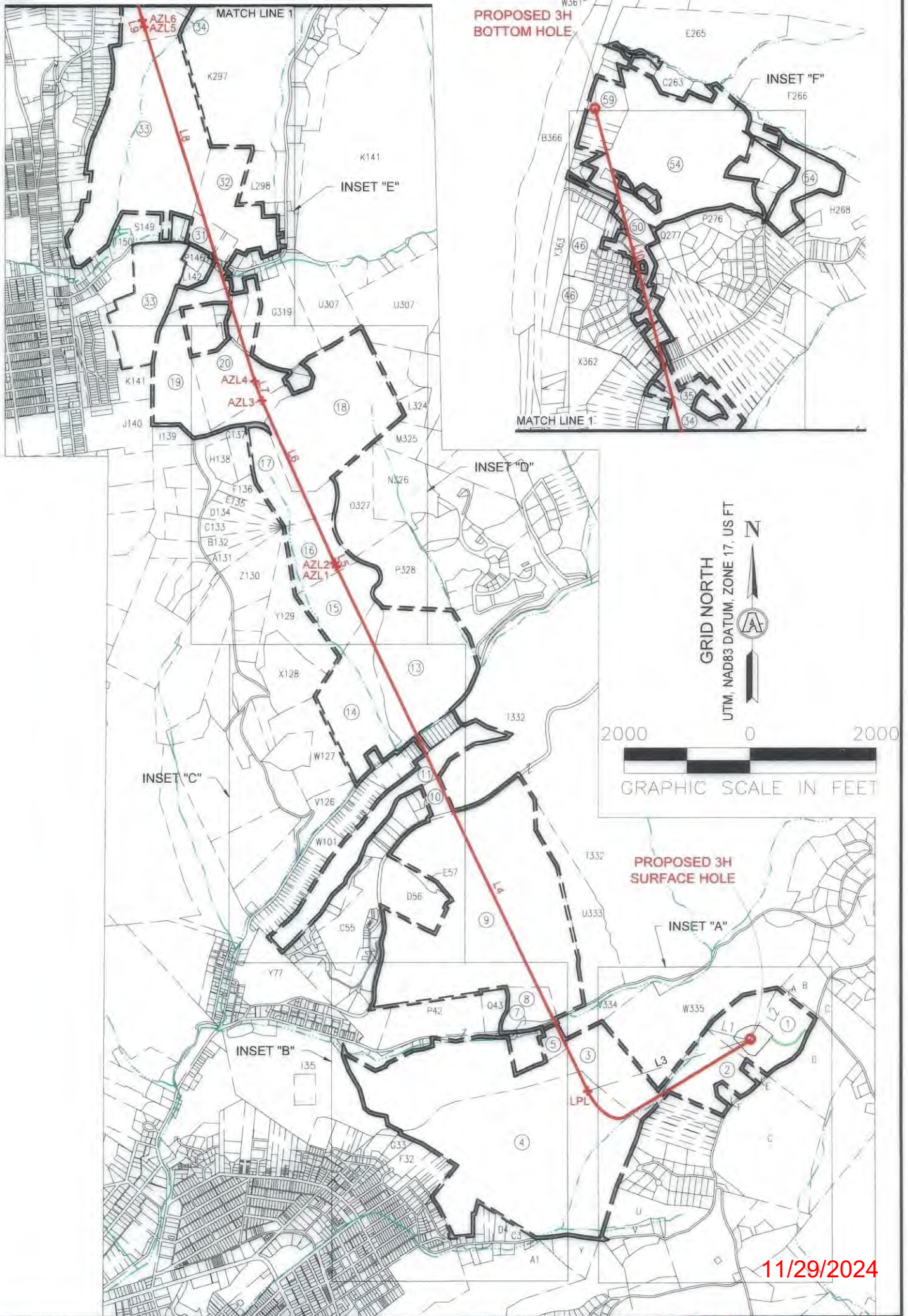
LONGITUDE: 80°40'00"

SURFACE HOLE 13,346'

LONGITUDE: 80°37'30"



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

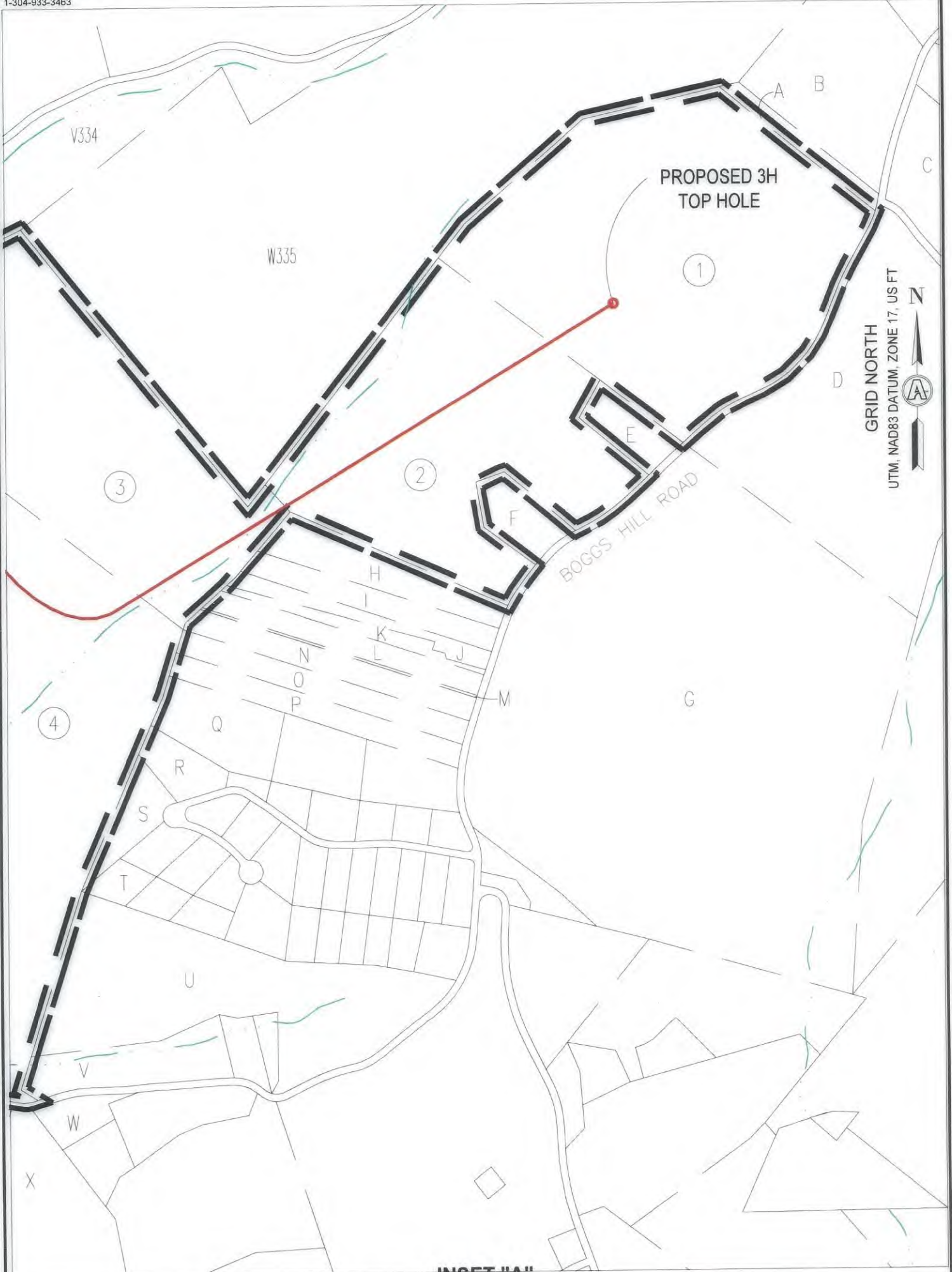


REVISIONS:

COMPANY:		
OPERATOR'S	SHANNON FIELDS OHI	
WELL #:	3H	
DISTRICT:	COUNTY:	STATE:
RICHLAND	OHIO	WV
DATE:	09-24-2024	
DRAWN BY:	TMF	
SCALE:	N/A	
DRAWING NO:	ACE-2326	
WELL LOCATION PLAT		



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



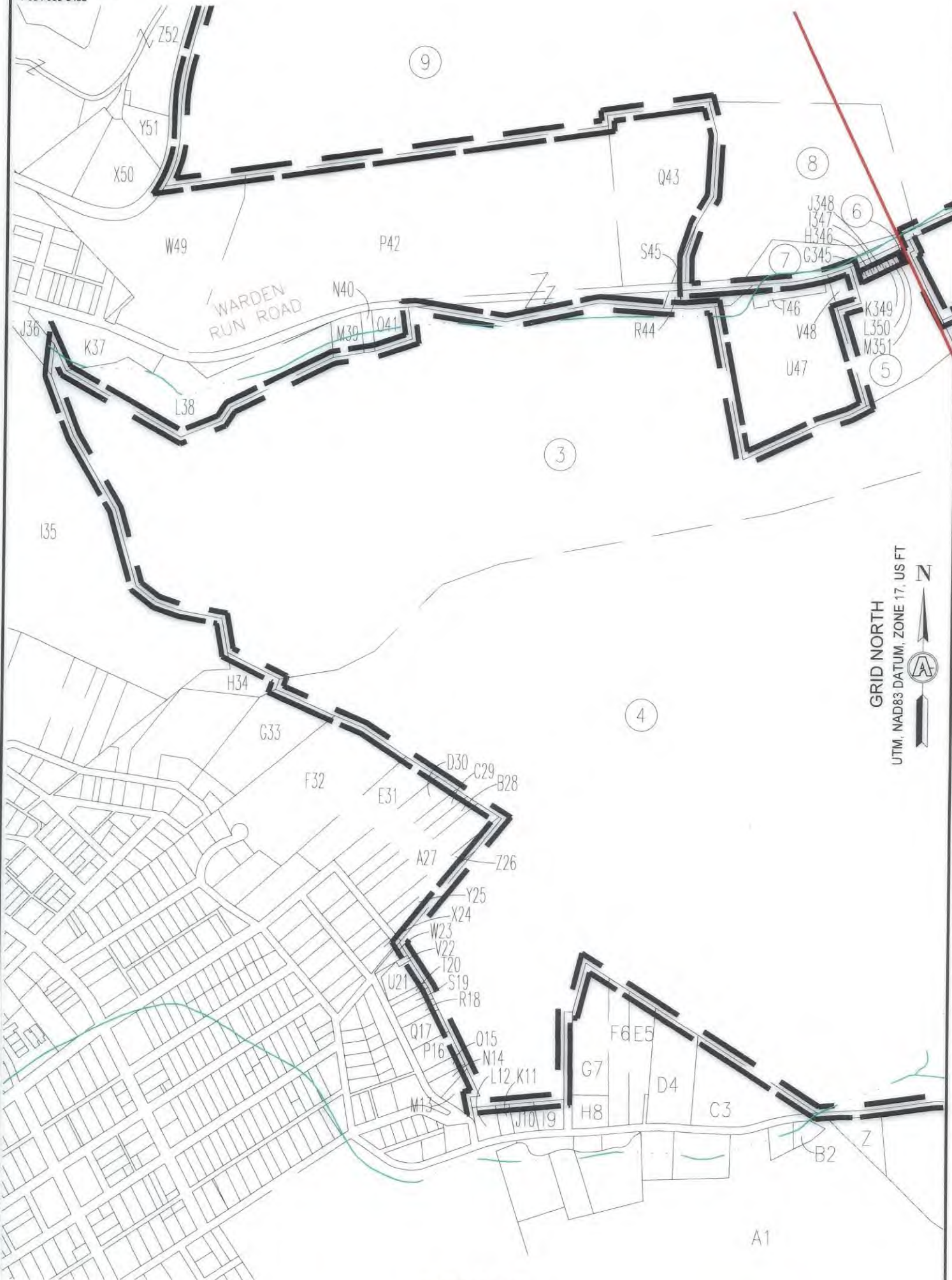
**INSET "A"**  
 SCALE: 1"=500'

11/29/2024

REVISIONS:	COMPANY:			DATE: 09-24-2024
	OPERATOR'S	SHANNON FIELDS OHI		DRAWN BY: TMF
	WELL #:	3H		SCALE: N/A
	DISTRICT:	COUNTY:	STATE:	DRAWING NO: ACE-2326
	RICHLAND	OHIO	WV	WELL LOCATION PLAT



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



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

**INSET "B"**  
SCALE: 1"=500'

**11/29/2024**

REVISIONS:	COMPANY:		
	OPERATOR'S	SHANNON FIELDS OHI	
	WELL #:	3H	
	DISTRICT:	COUNTY:	STATE:
	RICHLAND	OHIO	WV
			DATE: 09-24-2024
			DRAWN BY: TMF
			SCALE: N/A
			DRAWING NO: ACE-2326
			WELL LOCATION PLAT



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



INSET "C"  
SCALE: 1"=500'

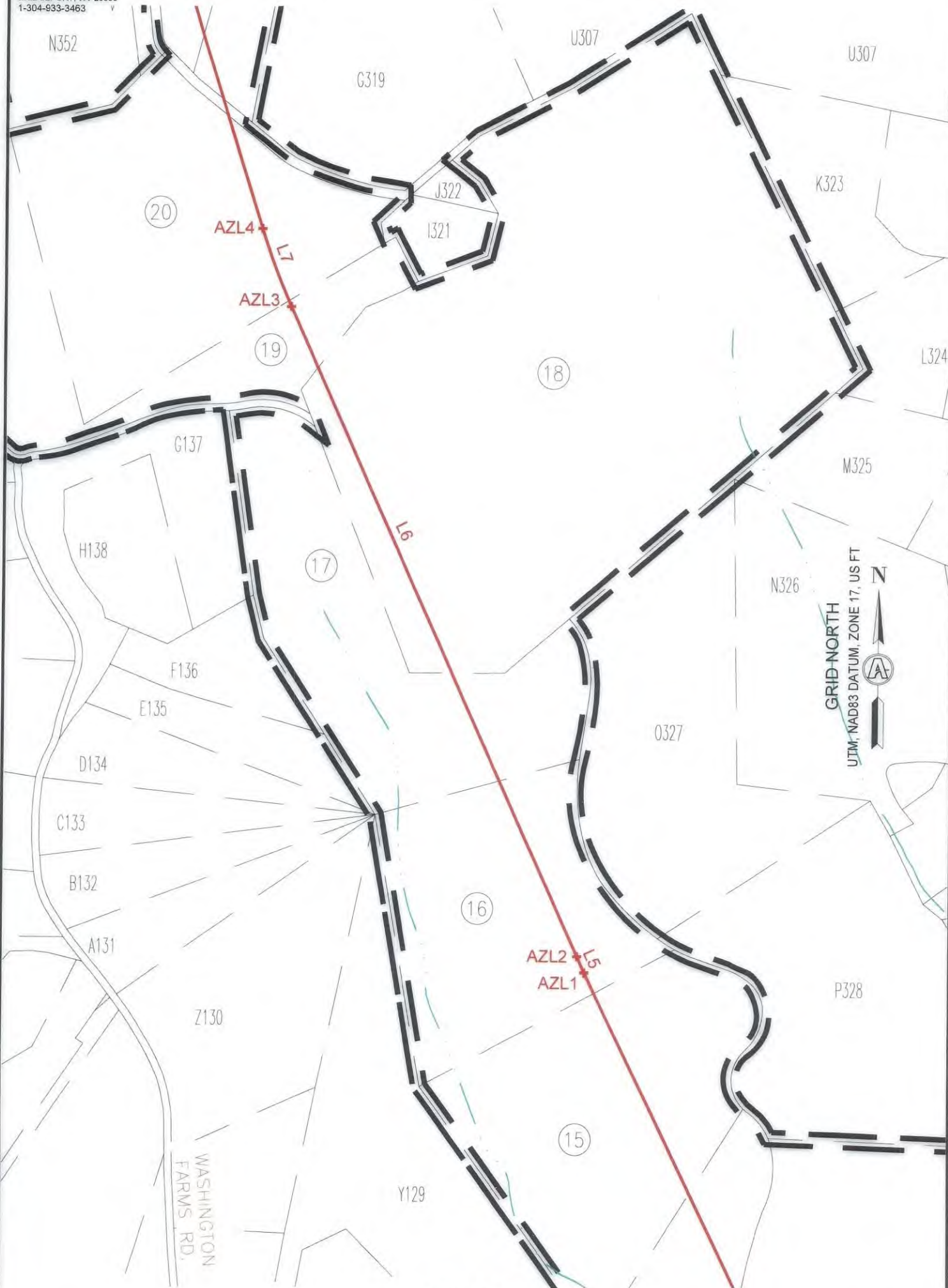
11/29/2024

REVISIONS:	COMPANY:			DATE: 09-24-2024
	OPERATOR'S	SHANNON FIELDS OHI		DRAWN BY: TMF
	WELL #:	3H		SCALE: N/A
	DISTRICT:	COUNTY:	STATE:	DRAWING NO: ACE-2326
	RICHLAND	OHIO	WV	WELL LOCATION PLAT





SURVEYOR/ENGINEER:  
1700 AMMOORE ROAD  
BRIDGEPORT, WV 26330  
1-304-933-3463



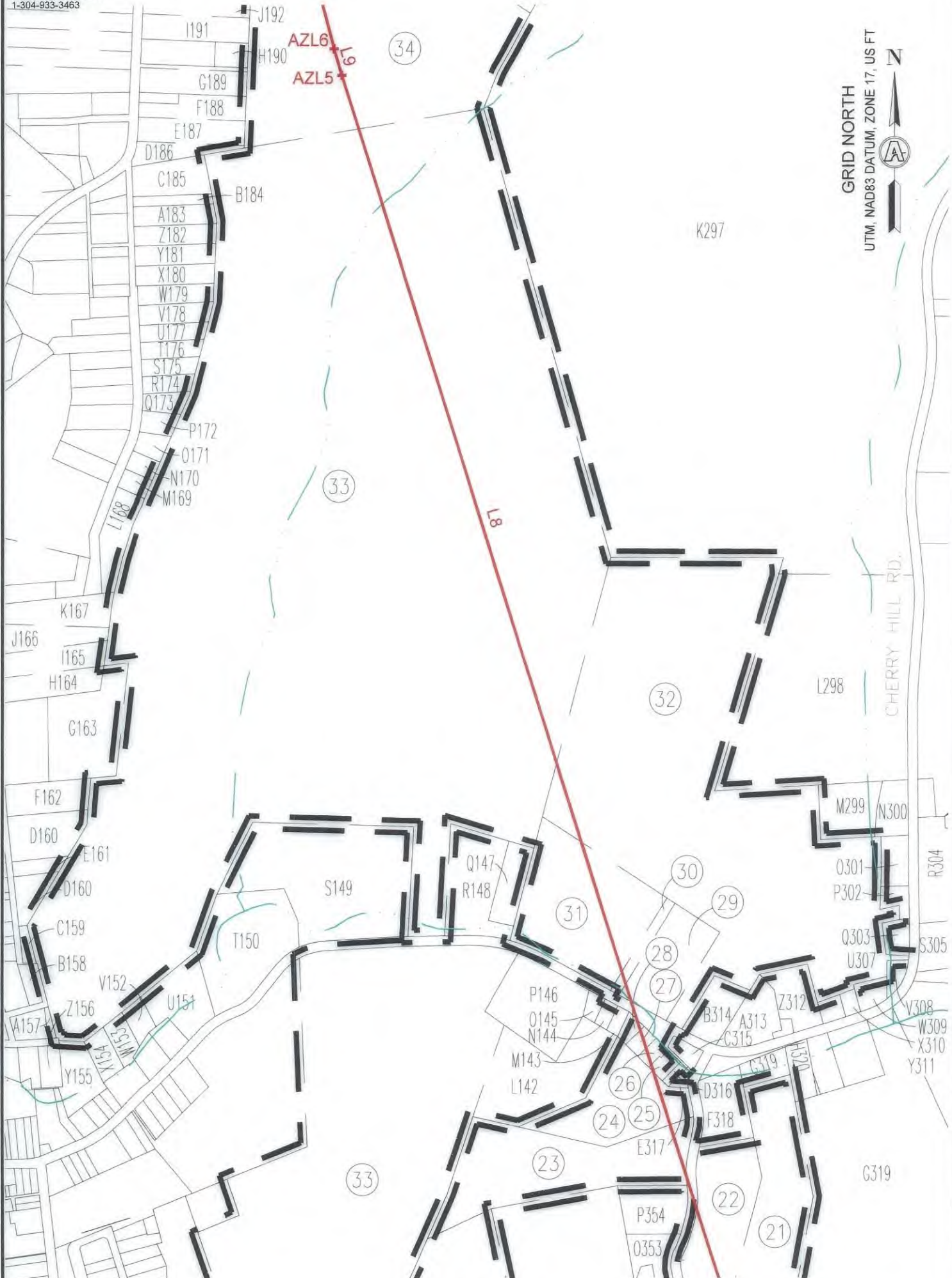
**INSET "D"**  
SCALE: 1"=500'

11/29/2024

REVISIONS:	COMPANY:			DATE: 09-24-2024
	OPERATOR'S	SHANNON FIELDS OHI		DRAWN BY: TMF
	WELL #:	3H		SCALE: N/A
	DISTRICT:	COUNTY:	STATE:	DRAWING NO: ACE-2326
	RICHLAND	OHIO	WV	WELL LOCATION PLAT



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



**INSET "E"**  
SCALE: 1"=500'

11/29/2024

REVISIONS:	COMPANY:		
	OPERATOR'S	SHANNON FIELDS OHI	
	WELL #:	3H	
	DISTRICT:	COUNTY:	STATE:
	RICHLAND	OHIO	WV
			DATE: 09-24-2024
			DRAWN BY: TMF
			SCALE: N/A
			DRAWING NO: ACE-2326
			WELL LOCATION PLAT



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

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



**INSET "F"**  
SCALE: 1"=500'

11/29/2024

REVISIONS:	COMPANY:		
	OPERATOR'S		DATE: 09-24-2024
	WELL #:		DRAWN BY: TMF
	DISTRICT:		SCALE: N/A
	COUNTY:	STATE:	DRAWING NO: ACE-2326
	RICHLAND	OHIO	WV
			WELL LOCATION PLAT



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

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	SWN PRODUCTION COMPANY LLC	4-R17-23.2
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	BENEKE NADA E ET AL	4-R17-19
3	WHEELING PARK COMMISSION	4-R17-6.1
4	WHEELING PARK COMMISSION	6-T1-2
5	CHERRY BROOK CONDOS	10-W27-6
6	KELLY KATHRYN D	10-W27-6.C008
7	FIGARETTI C; NICODEMUS R; & KENNEN R; TRUSTEES	10-W27-5
8	KEY ANIMAL HOSPITAL INC	10-W27-2
9	ELM HILL HOLDINGS LLC	4-R14-14
10	SCHULTZ JEFFREY S	4-R14-13
11	WHEELING PARK COMMISSION	10-W17A-1
12	SYRYLO RONALD & M	4-R14J-10
13	POLACK EDWARD P	4-R14-95
14	POLACK E PHILLIPS M D	4-R13-15
15	HUPP MOLLY H 1/2 INT & SCHEINHOLTZ DAVID J 1/2 INT	4-R13-1.13
16	HUPP SARA STEPHENS	4-R13-1.17
17	PRATHER JOHN R	4-R13-1.11
18	MULL ELLEN CLARICE ET AL	4-R10-44.1
19	PRATHER JOHN R	4-R10-47
20	MYERS WILBERT E III	4-R10-2
21	ASSARO ANTHONY L & S L	4-R10-43.3
22	ASSARO ANTHONY L & S L	4-R10-43.4
23	HEBERLIG RICHARD EDWARD JR	4-R10-6.1
24	COFFMAN MARGARET AND COFFMAN JR KENNETH	4-R10-6
25	COFFMAN LEONARD & MARY	4-R10M-10
26	COFFMAN MARY K	4-R10M-3.2
27	COFFMAN MARY K	4-R10M-3.1
28	PANEPINTO MARK D	4-R10M-3
29	H3 LLC	4-R10-13
30	NORTH FORK LANDFILL INC	4-R10-14
31	PERSINGER PAMELA M	4-R10-15
32	SARKIS SJ; ROHRIG RF; ROHRIG JR; ROHRIG RF TTEE	4-R10-19
33	NORTH FORK LANDFILL INC	4-R10-43
34	MCGLAUGHLIN DENNIS & S	4-R7-30
35	CLEARVIEW VOL FIRE DEPT INC	2-CV6-34.1
36	WICKHAM THOMAS OR LINDA	2-CV5-31
37	VILLAGE OF CLEARVIEW	2-CV5-30.1
38	JARRETT MARK G & L K	2-CV5-26
39	PENNYBACKER SHAWN R	2-CV5-27
40	MAYNARD JACK E & CYNTHIA L	2-CV5-25
41	STANLEY SHERRY L & R JR	2-CV5-24
42	CRABTREE WM GREGORY & MARLA L	2-CV5-23
43	THOMAS AUSTIN D	2-CV5-22.1
44	GOUDY THOMAS A & S K	2-CV5-20
45	ROBINSON RICHARD J	4-R7L-114
46	CUPP JOSEPH T AND AMY JO	10-W1A-107
47	LENNOX ROBERT D & DEBORAH A	4-R7L-98.2
48	CARROLL JAMES C & ROSE MARIE A	4-R7L-120
49	HOLDERMAN ALBERT JOHN IV & JANA	4-R7L-86.3
50	CITY OF WHEELING	4-R7L-105
51	CITY OF WHEELING	4-R7L-100
52	CITY OF WHEELING	4-R7L-99
53	CITY OF WHEELING	4-R7G-25
54	CITY OF WHEELING	4-R7-18
55	FLUHARTY MICHAEL L	4-R7-6
56	FAZZOLARI FRANK SAMUEL ESTATE	4-R7L-56.5
57	WEST VIRGINIA STATE ROAD COMM	4-R7L-56.4
58	FLUHARTY MICHAEL L & BRENDA K	4-R7L-56
59	WEST VIRGINIA STATE ROAD COMM	4-R7L-56.3

11/29/2024

REVISIONS:	COMPANY:		
	OPERATOR'S	SHANNON FIELDS OHI	
	WELL #:	3H	
	DISTRICT:	COUNTY:	STATE:
	RICHLAND	OHIO	WV
			DATE: 09-24-2024
			DRAWN BY: TMF
			SCALE: N/A
			DRAWING NO: ACE-2326
			WELL LOCATION PLAT



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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	HUFFNER EARL P	4-R17-24.1
B	MULL JAMES R	4-R17-24
C	MINCH HERBERT PAUL (1/2 INT) & MINCH BRENDA SUE (1/2 INT)	4-R17-57
D	APPALACHIA MIDSTREAM SERVICES LLC & CYNTHIA SMITH	4-R17-23
E	BENEKE NADA E	4-R17-22
F	JOHN THOMAS & MICHELLE	4-R17-20
G	CARTER RICHARD P	4-R17-23.3
H	OLEARY CRAIG V & EMMA L	4-R17-17
I	SCHREIBER JEREMY A & PHILBRICK ELIZABETH	4-R17-16
J	HEMPELMAN MARGARET E ESTATE	4-R17-14
K	COLUMBIA GAS TRANSMISSION CORP	4-R17-15
L	HEMPELMANN GUNTHER F JR	4-R17-13
M	BURKLAND CARL D III & JOLIN H	4-R17-13.1
N	BURKLAND CARL D III & JOLIN H	4-R17-12
O	FISHER HARRY S & BARBARA J	4-R17-11
P	FISHER HARRY S & BARBARA J	4-R17-11.1
Q	LENKEY ATTILA A	4-R17-10.1
R	KIRBY LAUREN MARIE & ANDAM DANIEL KIRBY	6-T2J-11
S	WONDERLY CHERYL LYNN	6-T2J-13
T	APEL RAYMOND	6-T2J-20.6
U	PACHUTA KAREN A & VARONE K J	6-T2-3
V	BLATT TRISTEN M	6-T2-4
W	WALTER MATTHEW C	6-T1-3
X	RCK 2 GROUP LLC 1/2 VOGRIN MICHELLE L 1/2	10-W41-74
Y	DOBBS DANIEL L & JULIE A	6-T1-13
Z	CARROLL DONALD L & CARROLL D ANN M	10-W41-57
A1	VOGRIN STEPHEN T	10-W41-38
B2	TEMPLIN GENEVA E	10-W41-56
C3	STORCH PETER G & LAURIE L	10-W41-46
D4	KOVALICK ROBERT J JR	10-W41-45
E5	MCGINLEY JOSEPH R & KELLY K	10-W41-44.2
F6	MCGINLEY JOSEPH R & KELLY K	10-W41-44.1
G7	MCGINLEY JOSEPH R & KELLY K	10-W41-44
H8	MCGINLEY JOSEPH R & KELLY K	10-W41-43
I9	STORCH PETER G & LAURIE	10-W41-42
J10	HINEGARDNER JAMES L & B S	10-W41-41
K11	HINEGARDNER JAMES L JR & BRENDA S	10-W41-40
L12	STEADMAN STELLA M - TOD	10-W41-39
M13	INGRAM ROBERT H & MARLENE L	10-W41-35.2
N144	BARANOWSKI CRYSTAL L	10-W41-24.2
O15	MCKEETS JEANNE M - TOD	10-W41-24.1
P16	HAMM WILLIAM A	10-W41-24
Q17	RUSSELL NESBITT SERVICES INC	10-W34-16
R18	HOLT SHERYL L	10-W34-17.1
S19	HOLT SHERYL L	10-W34-17
T20	HOLT SHERYL L	10-W34-17.2
U21	NALLY SUSAN B	10-W34-18
V22	SNIDER JAMES & CINDY	10-W34-18.3
W23	SNIDER JAMES & CINDY	10-W34-18.1
X24	SNIDER JAMES & CINDY	10-W34-19
Y25	SNIDER JAMES & CINDY	10-W34-29.1
Z26	WHEELING PARK COMMISSION	10-W34-29
A27	WHEELING PARK COMMISSION	10-W34-28
B28	SNIDER JAMES R	10-W34-27
C29	YOUNG DANIEL & CHELSEA	10-W34-26
D30	YOUNG DANIEL & CHELSEA	10-W34-25
E31	YOUNG DANIEL R & CHELSEA R	10-W34-25.1
F32	YOUNG DANIEL R & CHELSEA R	10-W33-331.9

\*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/29/2024

REVISIONS:	COMPANY:			DATE: 09-24-2024
	OPERATOR'S	SHANNON FIELDS OHI		DRAWN BY: TMF
	WELL #:	3H		SCALE: N/A
	DISTRICT:	COUNTY:	STATE:	DRAWING NO: ACE-2326
	RICHLAND	OHIO	WV	WELL LOCATION PLAT



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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
G33		35-NO-0100-010-
H34	PHILLIPSON SANDIN E	6-T1-1
I35	GC&P DEVELOPMENT LLC	10-W26-90
J36	LOHR LINDA J	10-W26-89
K37	GACS L P	10-W26-90.1
L38	LLL LLC	4-R17-6
M39	SEABRIGHT JACK & DANIELLE	4-R17-6.4
N40	SEABRIGHT JACK & DANIELLE	4-R17-6.2
O41	SEABRIGHT JACK A & DANIELLE L	4-R17-6.3
P42	VINEYARD CHRISTIAN FELLOWSHIP & WHEELING TRUSTEES	10-W27-1
Q43	FIRST CLASS REALTY LLC	10-W27-1.1
R44	FIRST CLASS REALTY LLC	10-W27-2.1
S45	FIRST CLASS REALTY LLC	10-W27-2.2
T46	JOCHUM BARBARA ANN	10-W27-3.C001
U47	FOREST BROOK CONDOS	10-W27-3
V48	ARRITT JOSHUA C	10-W27-4
W49	GILSON THOMAS A & STEPHANIE S	10-W26-50
X50	MCCARTHY T CARROLL JR	4-R16-1.5
Y51	HEISELE BARBARA ELLEN	4-R16-1.4
Z52	WEST RENTALS INC	4-R16-1
A53	RAW HOLDINGS LLC	4-R16-1.24
B54	LINDSAY MARK E & JULIE K	4-R16-1.26
C55	ELM HILL HOLDINGS LLC	4-R14-14
D56	ELM HILL LLC	4-R14-7
E57	ELM HILL LLC	4-R14-14.2
F58	WRIGHT DEBORAH D & JOHN E IV	4-R14-8
G59	TOWNSEND TAMMY J	4-R14-9.3
H60	MOREHOUSE SHAWN R	4-R14-9.2
I61	WEST RENTALS INC	4-R14-9
J62	ATKINSON RYAN J & ANN SHANLEY ATKINSON	4-R14-9.1
K63	CHURILLA PAULINE	4-R14-10
L64	WALTER DEBORAH & GERALD	4-R14-11
M65	GREER PETER S	4-R14-12
N66	GREER PETER S	4-R14-11.2
O67	WALTER DEBORAH & GERALD	4-R14-11.1
P68	WRIGHT DEBORAH D & JOHN E IV	4-R14-8
Q69	MICHALSKI JOHN & SUSAN	4-R16-1.23
R70	ROBERTS MARY L - TOD	4-R16-1.1
S71	JOHN M STASKY TRUST UNDER AGREEMENT	4-R16-1.28
T72	MURPHY ROBERT L & LINDA D	4-R16-1.13
U73	DEEM STEVEN C & NORMA J	4-R16-1.22
V74	KALISZ WILLIAM & CATHERINE A	4-R16-1.21
W75	MENDEL MARTHA J	4-R16-1.19
X76	SPERLAZZA RYAN J & ASHLEY M	4-R16-1.18
Y77	BAUER ROBB V AND KATHY	10-W21-43
Z78	BURGER KAREN E & STEVEN T BURGER	4-R13R-25
A79	BECK ISABELLE M	4-R13R-24
B80	WORKMAN KAITLYN MARIE & JACK ARMSTRONG FITCH	4-R13R-22
C81	FINSLEY HENRY M	4-R13R-21
D82	KETTLER JARED E	4-R13R-20
E83	WEISENBORN STEPHANIE L	4-R13R-19
F84	ALTMAN SHARON LOUISE C/O WESBANCO TRUST DEPT	4-R13R-18
G85	DUPLAGA MICHAEL F III	4-R13R-17
H86	GROUX FRED E JR	4-R13R-16
I87	ETHEL ROSE SMITH - TOD	4-R13R-15
J88	HUGHES JOSHUA KELLER	4-R13R-14
K89	MANNING JAMES C	4-R13R-13
L90	MANNING JAMES C	4-R13R-12
M91	WEISENBORN DALE A & S L	4-R13R-11
N92	BEARY HILARY H	4-R13R-10
O93	BOWMAN ROBERT E & BARBARA A	4-R13R-9

\*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/29/2024

REVISIONS:	COMPANY:			
	OPERATOR'S		SHANNON FIELDS OHI	
	WELL #:		3H	
	DISTRICT:	COUNTY:	STATE:	DATE: 09-24-2024
	RICHLAND	OHIO	WV	DRAWN BY: TMF
				SCALE: N/A
				DRAWING NO: ACE-2326
				WELL LOCATION PLAT





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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
Q95	PAREE ANGELO JR & KELLY J	4-R13R-7
R96	MOSCA TRUST; LOUISE E MOSCA TRUSTEE	4-R13R-6
S97	MOSCA TRUST; ROBERT J OR LOUISE E MOSCA TRUSTEES	4-R13R-5
T98	TRABERT TERRI L ET AL	4-R13R-4
U99	BACHMANN PETER	4-R13R-3
V100	SCHUNK CHRISTOPHER & JESSICA	4-R13R-1
W101	JARVIS DOWNING & EMCH INC	4-R13R-27
X102	BICKERSTAFF ROBERT DALE JR	4-R13M-14
Y103	HOLT NED S & CHRISTINE L	4-R13M-13
Z104	HARTMANN SHARON J	4-R13M-12
A105	HARTMANN SHARON J	4-R13M-12.1
B106	COLUMBIA GAS TRANSMISSION CORP	4-R13M-11
C107	RITNER ROBERT L & TRACI L	4-R13M-10
D108	MULL JUSTIN & TAMMEY (LC-BYRS) OLEKSIK CASSIE & D J(LC-SLRS)	4-R13M-8.1
E109	MULL JUSTIN & TAMMEY (LC-BYRS) OLEKSIK CASSIE & D J(LC-SLRS)	4-R13M-8
F110	MULL JUSTIN & TAMMEY (LC-BYRS) OLEKSIK CASSIE & D J(LC-SLRS)	4-R13M-7
G111	FLICK-MOOSS SUZANNE M & MOOSS CHRISTOPHER J	4-R13M-7.1
H112	FLICK-MOOSS SUZANNE M & MOOSS CHRISTOPHER J	4-R13M-6
I113	VOLUSIA VENTURES	4-R13M-4
J114	ARCHER BYRON F JR & M L	4-R13M-3
K115	MICKER DEBORAH A	4-R13M-2
L116	WEST RENTALS INC	4-R13M-1
M117	WEST RENTALS INC	4-R13M-1.1
N118	WEST RENTALS INC	4-R13M-1.2
O119	THURSTON BONNIE BOWMAN	4-R13M-1.3
P120	THURSTON BONNIE L	4-R14J-16
Q121	CLARK MARY LADONNA	4-R14J-14
R122	CLARK MARY LADONNA	4-R14J-13
S123	TODD HOWARD R JR	4-R14J-12
T124	CHIAZZA PETER P & AUDREY D	4-R14J-11
U125	POLACK WENDY B	4-R13-15.1
V126	LAURENCE WASH FARMS IMPROVEMENT ASSN	4-R13-1
W127	CARR NANCY P & ROBERT E JR-TOD	4-R13-17
X128	HOOFF ROBERT H - TOD	4-R13-17.1
Y129	PEACE ANTHONY & TRACEY PEACE-GANTZER	4-R13-25
Z130	POLACK EDWARD P	4-R13-1.18
A131	FERNS MICHAEL D SR & LINDA K	4-R13-16.4
B132	JUNE PAMELA B & WHITLINGER STEVEN W	4-R13-16.5
C133	COLEMAN JOSEPH P & M A	4-R13-16.2
D134	BATES NANCY A & MARCONI LORNA	4-R13-16.1
E135	GRUBLER J & BODNAR K	4-R13-16.3
F136	MYERS MICHAEL & STEPHANIE	4-R13-16.6
G137	MYERS MICHAEL & STEPHANIE	4-R13-16.7
H138	FLETCHER SCOTT A & FLETCHER MELISSA D	4-R13-16
I139	DEVINE DANIEL FRANCIS AND RENSHAW JEAN ANNE	4-R10-48
J140	PRATHER TYLER D	10-W10-171
K141	CITY OF WHEELING	10-W8-348
L142	VAN SICKLE JUDITH ANN	4-R10-6.3
M143	GREEN RANDY L	4-R10M-3.1
N144	GREEN RANDY L	4-R10M-2
O145	ROSS DONNA M	4-R10M-1
P146	NORTH FORK LANDFILL INC C/O SARKIS SUSAN	4-R10-7
Q147	NORTH FORK LANDFILL INC	4-R10-16
R148	NORTH FORK LANDFILL INC	4-R10-17
S149	ROHRIG CATHERINE A	4-R10-43.8
T150	KLEEH JAMES L & M L	4-R10G-16
U151	KLEEH JAMES L & MARILYN	4-R10L-34

\*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/29/2024

REVISIONS:	COMPANY:		 	
	OPERATOR'S		SHANNON FIELDS OHI	
	WELL #:		3H	
	DISTRICT:		COUNTY:	STATE:
	RICHLAND		OHIO	WV
		DATE: 09-24-2024		
		DRAWN BY: TMF		
		SCALE: N/A		
		DRAWING NO: ACE-2326		
		WELL LOCATION PLAT		



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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
V152	MONTELEONE DAVID P	4-R10G-16.5
W153	DODD CHAS WILSON & RUTH A	4-R10G-16.4
X154	WELSHHANS DIANA MAE	4-R10L-36
Y155	WELSHHANS DIANA MAE	4-R10L-35
Z156	NASH GARY A & KAREN L	4-R10L-2
A157	WELSHHANS DIANA MAE	4-R10L-3
B158	H3 LLC	4-R10G-15.1
C159	MIKLAVIC THOMAS J	4-R10G-14.2
D160	ROHRIG ROBERT F & KATHLEEN S	4-R10G-14
E161	THOMPSON MARY JEAN	4-R10G-14.1
F162	ROHRIG ROBERT F & KATHLEEN S	4-R10G-12
G163	ROHRIG ROBERT F & K S	4-R10G-17
H164	ROHRIG ROBERT F & KATHLEEN S	4-R10G-8
I165	SARKIS SJ; ROHRIG RF; ROHRIG JR; ROHRIG RF TTEE	4-R10G-7
J166	SARKIS SJ; ROHRIG RF; ROHRIG JR; ROHRIG RF TTEE	4-R10G-6
K167	SARKIS SJ; ROHRIG RF; ROHRIG JR; ROHRIG RF TTEE	4-R10G-4
L168	ROHRIG SHELLEY J	10-W4-118
M169	ALIG JOSEPH E	10-W4-118.5
N170	JOHNSON BARON M JR & C J	10-W4-118.3
O171	OKEY SHAUN D & ALIYA Z	10-W4-118.6
P172	BALDAUF LEIGH ANN C/O GOSSETT LEIGH ANN	10-W4-128
Q173	GWENNAP ROBERT K & ROBIN L PERRY	10-W4-129
R174	GROB PHYLLIS TRUST; GROB PHYLLIS L & R E GROB TEEES	10-W4-130
S175	BARTELS MICHAEL STANLEY & JANET KENNEDY BARTELS	10-W4-131
T176	MARTIN JOHN P & AMY L	10-W4-132
U177	ANDERSON CARLAS E JR & ANDERSON RICHELE R	10-W4-133
V178	GREINER MARTHA J TR; GREINER MARTHA J IRREV TRUST	10-W4-134
W179	MILLER ROBERT D - RTO; ROBERT R MILLER	2-CV7-42.1
X180	PEKLINSKY JENNIFER S & ANDREW	2-CV7-41
Y181	TYSON DAVID DUANE & LINDA	2-CV7-39
Z182	KREITZER RAYMOND F & A B	2-CV7-38
A183	KLOSS HELEN LUCY ESTATE	2-CV7-37
B184	CONNIFF ROBERT B & JONI L; MILLER BECCA R & ANDREW K	2-CV7-36
C185	FOX SUSAN C	2-CV7-34
D186	HANEY WILLIAM D & DARLENE	2-CV7-32
E187	OTT THOMAS A & DEBRA A	2-CV7-31
F188	OTT THOMAS ANDREW & DEBRA A	2-CV7-30
G189	HARRISON LISA MAUREEN	2-CV7-28
H190	MCGLAUGHLIN DENNIS J	2-CV7-27
I191	TRABERT DORIS H	2-CV7-26
J192	TRABERT GERALD L & D H	2-CV7-25
K193	SCHMITT CAMERON & JONES PATRICK J JR	2-CV7-22
L194	SCHMITT CAMERON & JONES PATRICK J JR	2-CV7-22.1
M195	MACRI LOGAN B	2-CV5-39
N196	DELBRUGGE MARK A & PATRICIA DELBRUGGE - TOD	2-CV5-38
O197	MAHLKE CATHERINE BROWN	2-CV5-37
P198	BLANKENSHIP LYNNE K	2-CV5-34
Q199	WRIGHT DANIEL L & MARIANNA L	2-CV5-8
R200	COOLEY RODNEY	2-CV5-10
S201	DRAGONETTI EDA L	2-CV5-11
T202	DRAGONETTI EDA L	2-CV5-11.1
U203	WICKHAM THOMAS OR LINDA	2-CV5-31
V204	KOSEM GERALD L	2-CV5-12
W205	CUPP MICHAEL L & R I	2-CV5-13.1
X206	CUPP MICHAEL L & RUBY I	2-CV5-13
Y207	PENNYBACKER SHAWN R & PENNYBACKER VICKI I	2-CV5-15
Z208	PENNYBACKER SHAWN R & VICKI I	2-CV5-15.1
A209	ALLEN AARON & DARLENE - TOD	2-CV5-16

\*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/29/2024

REVISIONS:	COMPANY:			
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1-304-933-3463

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
B210	BARRY WILLIAM D & CHIAZZA MARY L	2-CV5-17.1
C211	CRABTREE WILLIAM G & M L	2-CV5-17
D212	WILLIAMS RAY A	2-CV5-18.1
E213	THOMAS AUSTIN D	2-CV5-23.1
F214	THOMAS AUSTIN D	2-CV5-22
G215	CAMPBELL MARK A & C L	2-CV5-18
H216	VAN LANEN SAMANTHA R & FOLMAR REESE A	2-CV5-40
I217	COTTRELL ROGER KEITH JR	2-CV5-41
J218	DELANEY EXIE C & B K	2-CV5-19
K219	MAYLES HARRY J JR	2-CV2-1
L220	ANGIUS JEANIE M	2-CV2-1.2
M221	LENNOX ROBERT & DEBORAH	4-R7L-119
N222	LENNOX ROBERT D & D	4-R7L-118
O223	MITCHELL EVERETT & JESSICA R	4-R7L-85.3
P224	HOLDERMAN ALBERT JOHN IV & JANA	4-R7L-86.2
Q225	WRIGHT BILLY R II & BECKY S	4-R7L-86.1
R226	DOWLER ELIZABETH & DAVID	4-R7L-86
S227	WORLS GEORGE R JR & BETTY B; WORLS BRENT R - TOD	4-R7L-87
T228	MOORE JERRY W	4-R7L-87.1
U229	CROOK REBECCA J & MELINDA S CROOK	4-R7L-88
V230	CROOK REBECCA J & MELINDA S CROOK	4-R7L-89
W231	SHAVER NATALIE A & GARY P JR	4-R7L-43
X232	STECHLY ROBERT F & J A	4-R7L-44
Y233	STECHLY ROBERT F & J A	4-R7L-45
Z234	BRUHN DAVID ALAN	4-R7L-46
A235	COLUMBIA GAS TRANSMISSION CORP	4-R7L-47
B236	RUSNAK BRITTANY	4-R7L-74.1
C237	BEITER MATTHEW & COLLEEN	4-R7L-74
D238	BLACK BRIAN J & M G	4-R7L-73
E239	KALCUM CATHERINE G	4-R7L-72.1
F240	CUPP JOSEPH T & AMY JO	4-R7L-72
G241	GOUDY JARID	2-CV5-50
H242	GOUDY JARID	4-R7L-107.1
I243	SACCO FAMILY TRUST	4-R7L-107.2
J244	MACFARLAND KIMBERLY	4-R7L-92
K245	MACFARLAND KIMBERLY	4-R7L-91
L246	MACFARLAND KIMBERLY	4-R7L-41
M247	MACFARLAND KIMBERLY	4-R7L-39
N248	MACFARLAND KIMBERLY	4-R7G-24
O249	PAYTON SHARON S ET AL	4-R7G-23
P250	PAYTON SHARON S ET AL	4-R7G-20
Q251	ROBINSON RICHARD J	4-R7G-19
R252	VELEGOL DAVID & CAROLYN	4-R7G-18
S253	GUZZI COREY A & BRITTANY N	4-R7-11
T254	GUZZI COREY A & BRITTANY N	4-R7-10
U255	BOURNE JOHN & LETHA	4-R7L-56.8
V256	WEST VIRGINIA STATE ROAD COMM	4-R7L-56.7
W257	MORGAN WILBUR W	4-R7L-56.6
X258	WEST VIRGINIA STATE ROAD COMM	4-R7L-56.2
Y259	DOUGHERTY GEORGE H & THELMA T	4-R7L-56.1
Z260	JONES SHANNON M WILDS	4-R7-16.1
A261	DEAN LOMAN L & R Z	4-R7-21
B262	LOEW J W JR & ELSIE	4-R7-22
C263	HARTFILE GARY L - TOD	4-R7-16
D264	HARTFILE GARY L - TOD	4-R7-20

HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/29/2024

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BRIDGEPORT, WV 26330  
1-304-933-3463

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
E265	EDGE BRUCE W	4-R7-23
F266	ROTH FARMS, LLC	4-R7-24
G267	HARTFILE GARY L -TOD	4-R7-15.1
H268	FEDORKE AARON P & TIMOTHY J	2-CV4-3
I269	FLUHARTY MICHAEL AND BRENDA K	4-R7-17
J270	STEWART MARK E; GEIGER LEEANN	4-R7-28
K271	STEWART MARK E	4-R7-15.2
L272	BIEGA FRANKIE P & C S	4-R7-15
M273	STOEHR RONALD J & MARIE G- TOD	2-CV3-4.7
N274	ROWND DENISE A & ROWND DANIEL THOMPSON III	4-R7-14.1
O275	ROWND DENISE & DANIEL T III	4-R7-14
P276	ROWND DENISE & THOMPSON DANIEL, III	4-R7-12
Q277	BIEGA CONNIE SUE & FRANK PAUL	4-R7-12.10
R278	CUPP JOSEPH T AND AMY JO	4-R7L-107
S279	CHUMNEY KEVIN K AND JANET L	4-R7Q-13
T280	VILLAGE OF CLEARVIEW	4-R7L-117
U281	REINACHER CHARLES J & CAROL S	2-CV6-4
V282	WAGNER JOHN M & JODY L	2-CV6-2.1
W283	WAGNER JOHN M & JODY L	2-CV6-2.2
X284	WAGNER JOHN M & JODY L	2-CV6-2
Y285	FRUM JAMES P & CAROL L	2-CV6-1
Z286	LEIB RAYCE P & GEORGE CARRIE A	2-CV5-29
A287	WICKHAM THOMAS OR LINDA	2-CV5-28
B288	CLATTERBUCK CHAD J	2-CV6-34
C289	STEFANOW JOHN	2-CV6-33
D290	PARKER GAGE C	2-CV6-32
E291	THOMAS AMANDA & MARK S II	2-CV6-31
F292	HAWK ANGELA S & BART N WISIALOWSKI	2-CV6-30
G293	RUSSELL J F SR & W M ( L/E) KUZNICK MARGARET CAROL	2-CV6-29
H294	SPARKS FAMILY IRREVOCABLE TRST; TRACY LYNN EBERHARD TRUSTEE	2-CV6-29.1
I295	PLANET HOME LENDING LLC	2-CV6-28
J296	VILLAGE OF CLEARVIEW	2-CV6-34.2
K297	WARWOOD LAND CO LLC	4-R7-31
L298	BREIDING JOSHUA D & SARAH N	4-R10-20
M299	MCGARRY CORENA ESTATE	4-R10-33
N300	MCGARRY CORENA ESTATE	4-R10-32
O301	BREIDING JOSHUA D	4-R10-34.2
P302	NORTH FORK LANDFILL INC	4-R10-34.1
Q303	ROBINSON RICHARD J	4-R10-37
R304	MCCARDLE STANLEY M JR & M	4-R10-36
S305	IAFRATE DAVID A	4-R10-39
T306	NORTH FORK LANDFILL INC C/O SUSAN SARKIS	4-R10-41.1
U307	NORTH FORK LANDFILL INC C/O SUSAN SARKIS	4-R10-39.1
V308	NORTH FORK LANDFILL INC	4-R10-38
W309	JAQUAY TODD F	4-R10-19.1
X310	MOFFITT SYLVIA F	4-R10-10
Y311		4-R10-19.2
Z312	SARKIS SJ; ROHRIG RF; ROHRIG JR; ROHRIG RF TTEE	4-R10-10.1
A313	SARKIS SJ; ROHRIG RF; ROHRIG JR; ROHRIG RF TTEE	4-R10-11
B314	GILBERT DONALD E JR	4-R10-12
C315	RENSHAW MICHAEL F & RENSCHAW OWEN F JR	4-R10M-3.3
D316		4-R10M-11
E317	COFFMAN KENNETH JR	4-R10-6.2
F318	ASSARO ANTHONY L & S L	4-R10-43.2
G319	NORTH FORK LANDFILL INC	4-R10-43.1
H320	ASSARO ANTHONY L SR & SANDRA	4-R10-43.5
I321	PRATHER TYLER D	4-R10-44

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11/29/2024

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BRIDGEPORT, WV 26330  
1-304-933-3463

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
J322	PRATHER TYLER D	4-R10-44.2
K323	DOYLE DANIEL T & LUCINDA E	4-R11-2.12
L324	LOWE JEREMY J & AMANDA L	4-R11-2.11
M325	LOWE JEREMY J & AMANDA L	4-R11-2.6
N326	SANTORINE LORA KAY & SANTORINE ADOLPH W JR	4-R14A-24
O327	GRIMES THOMAS B TRUSTEE THE ARCHIE TODD HUPP IV	4-R13-1.15
P328	HUPP SARA	4-R13-1.14
Q329	ADAMS JAMES C & MELISSA S	4-R14E-1
R330	SUNSHINE STATE INV GROUP LLC	4-R14A-53
S331	ALLEN AMY & THOMAS E JR (BYRS) ALLEN THOMAS E (LC-SLR)	4-R14E-4
T332	CITY OF WHEELING	4-R14-15
U333	WHEELING PARK COMMISSION	4-R14-14.1
V334	GACS LP	10-W27A-1
W335	PARK VIEW MEMORIAL GARDENS INC	4-R17-8
X336	PELUCETTE JOHN M & C L	4-R14J-1
Y337	PANEPINTO MARK D & MINDY D	4-R14J-2
Z338	DUVAL THOMAS & ALLAMONG MARY F	4-R14J-3
A339	BOUDREAU DENISE LYNN	4-R14J-4
B340	FERRELL ELLIOT C	4-R14J-5
C341	TAYLOR JOANE L	4-R14J-8
D342	RICE STEVEN A AND JUDITH A	4-R14J-7
E343	BALTZ LEE E & J L	4-R14J-6
F344	ZAVOLTA RONALD W	4-R14J-9
G345	LIGNUM VIA LLC	10-W27-6.C001
H346	CLATTERBUCK MARIANNE	10-W27-6.C002
I347	LIGNUM VIA LLC	10-W27-6.C003
J348	LIGNUM VIA LLC	10-W27-6.C004
K349	LIGNUM VIA LLC	10-W27-6.C005
L350	NESTOR PAMELA	10-W27-6.C006
M351	LIGNUM VIA LLC	10-W27-6.C007
N352	PRATHER TYLER D	4-R10-3
O353	WADDELL DONALD L & D J	4-R10-4
P354	RENSHAW VICKI J	4-R10-5
Q355	WOLFE JAMES R ESTATE	4-R7-7
R356	FLUHARTY MICHAEL L & BRENDA K	4-R7-8
S357	FLUHARTY MICHAEL L & BRENDA K	4-R7-9.1
T358	FLUHARTY MICHAEL & BRENDA	4-R7-9
U359	FEDORKE TIMOTHY JOSEPH	4-R7-37
V360	BIEGA FRANK & CONNIE	4-R7-27.2
W361	UNITED STATES OF AMERICA ARMY CORP OF ENG - PITTS DIV	4-R4-1
X362	MONTELEONE TERESA	10-W2-1
Y363	H3 LLC	04-0R7G-29
Z364	H3 LLC	04-0R7L-116
A365	H3 LLC	04-0R7L-0098.1
B366	UNITED STATES OF AMERICA ARMY CORP OF ENG - PITTS DIV	4-R7-38

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11/29/2024

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	OPERATOR'S	SHANNON FIELDS OHI		DRAWN BY: TMF
	WELL #:	3H		SCALE: N/A
	DISTRICT:	COUNTY:	STATE:	DRAWING NO: ACE-2326
	RICHLAND	OHIQ	WV	WELL LOCATION PLAT

WW-6A1  
(5/13)

Operator's Well No. Shannon Fields OHI 3H

**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"

Office of Oil and Gas  
OCT 24 2024

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

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

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

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

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

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

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

Well Operator: SWN Production Company, LLC

By: Tim Ledet

Its: Staff Landman



EXHIBIT "A"  
Shannon Fields OHI 3H  
Ohio County, West Virginia

4706900375

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

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
/1	4-R17-23.2	Mary Carter Topp, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC SWN Production Company, LLC	17.00%	805/270 808/412 883/415	0.00%
/2	4-R17-19	Lisa Beneke Burris, a married woman dealing in her sole and separate property  Nada E. Beneke, a single woman  George Robert Beneke, divorced	Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%  18.00%  18.00%	811/501 884/157 811/496 884/157 811/407 884/157	0.00%  0.00%  0.00%
/3	4-R17-6.1	The Parks System Trust Fund of Wheeling, a perpetual charitable trust	SWN Production Company, LLC	18.00%	978/251	0.00%
/4	6-T1-2	The Wheeling Park Commission, a Public Corporation and Governmental Subdivision of the City of Wheeling and the City of Wheeling, a Municipal Corporation	SWN Production Company, LLC	18.00%	978/248	0.00%
/5	10-W27-6	Richard E. Riedel and Kristine M. Riedel, husband and wife  Diana Lynette Barr, a single woman  Pearls of Property, LLC, a West Virginia Limited Liability Company	Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%  18.00%  18.00%	839/620 885/1 839/530 885/200 843/144 885/368	0.00%  0.00%  0.00%
/6	10-W27-6.C8	Pearls of Property, LLC, a West Virginia Limited Liability Company	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	843/144 885/368	0.00%
/7	10-W27-5	Christopher Figaretti, Rhonda Nicodemus, and Robert Kennen, Trustees of the Vineyard Christian Fellowship	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	857/468 885/188	0.00%
/8	10-W27-2	Golden Eagle Resources II, LLC	American Petroleum Partners Operating, LLC SWN Production Company, LLC	19.00%	938/206 980/572	0.00%
/9	4-R14-14	Bounty Minerals, LLC  Wheeling Country Club, Inc	SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	938/797 938/785	0.00%
/10	4-R14-13	Jeffrey S. Schultz, a single man	SWN Production Company, LLC	15.00%	1005/87	0.00%
/11	10-W17A-1	The Estate of Catherine S. Ramage, Richard C. Ramage, Executor, and Richard C. Ramage, a widower  Albert T. Fisher, III, a married man dealing in his sole and separate property  Virginia Episcopal School	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%  14.00%  14.00%	848/194 885/77 850/699 885/77 851/375 885/77	0.00%  0.00%  0.00%

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		Frances F. Verdery, a/k/a Frances W. Verdery, a/k/a Frances W. Fisher, a married woman	SWN Production Company, LLC	16.00%	941/52	0.00%
		Christie A. Fisher, a single woman	SWN Production Company, LLC	18.00%	942/443	0.00%
		Elizabeth B. Johnson, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	979/342	0.00%
		Stuart & Jourdan Bacon Trust Agreement, dated October 22, 1991	SWN Production Company, LLC	18.00%	979/355	0.00%
		Bates Family Trust, dated February 24, 2000	SWN Production Company, LLC	18.00%	979/117	0.00%
		Victor H. Woolley & Kate Reilly Woolley, husband and wife	SWN Production Company, LLC	14.00%	988/281	0.00%
		Clark H. Woolley, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	995/531	0.00%
		Frances W. Altmaier, married woman dealing in her sole and separate property	SWN Production Company, LLC	14.00%	989/196	0.00%
		The City of Wheeling, a Municipal Corporation	SWN Production Company, LLC	18.00%	1027/517	0.00%
		Cary Marshall Smith, a widow	SWN Production Company, LLC	18.00%	1029/234	0.00%
		Isabel E. Scott, a widow, by Melvin H. Scott, Attorney in Fact	SWN Production Company, LLC	18.00%	1029/214	0.00%
		Charles C. R. Dillon, a single man	SWN Production Company, LLC	18.00%	1029/224	0.00%
12	4-R14J-10	Ronald Srylo and Margaret Srylo, husband and wife	SWN Production Company, LLC	18.00%	958/603	0.00%
13	4-R14-95	David J. Scheinholtz, single	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.75%	952/503 980/572	0.00%
		Edward Phillip Polack, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.75%	947/70 980/572	0.00%
		Marsha H. Phillips and Allyssa B. Teske, as Co-Trustees of the Edward Bayne Phillips Trust, Dated February 9, 1995	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.75%	953/715 980/572	0.00%
		Molly Haze Hupp, single	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.75%	947/775 980/572	0.00%
		Nancy P. Carr and Robert E. Carr, wife and husband	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.75%	947/48 980/572	0.00%
		Thomas B. Grimes, Trustee of the Archie Todd Hupp, IV Special Needs Trust	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.75%	948/13 980/572	0.00%
		Tiffany Judge, a married woman dealing in her sole and separate property	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.75%	947/59 980/572	0.00%
		Travis S. Carr, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.75%	947/37 980/572	0.00%
		Sara S. Hupp, a single woman	SWN Production Company, LLC	18.75%	1020/465	0.00%
14	4-R13-15	David J. Scheinholtz, single	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.75%	952/503 980/572	0.00%
		Edward Phillip Polack, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC	18.75%	947/70	0.00%

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			SWN Production Company, LLC	980/572	
		Marsha H. Phillips and Allyssa B. Teske, as Co-Trustees of the Edward Bayne Phillips Trust, Dated February 9, 1995	American Petroleum Partners Operating, LLC	18.75%	953/715 0.00%
			SWN Production Company, LLC	980/572	
		Molly Haze Hupp, single	American Petroleum Partners Operating, LLC	18.75%	947/775 0.00%
			SWN Production Company, LLC	980/572	
		Nancy P. Carr and Robert E. Carr, wife and husband	American Petroleum Partners Operating, LLC	18.75%	947/48 0.00%
			SWN Production Company, LLC	980/572	
		Thomas B. Grimes, Trustee of the Archie Todd Hupp, IV Special Needs Trust	American Petroleum Partners Operating, LLC	18.75%	948/13 0.00%
			SWN Production Company, LLC	980/572	
		Tiffany Judge, a married woman dealing in her sole and separate property	American Petroleum Partners Operating, LLC	18.75%	947/59 0.00%
			SWN Production Company, LLC	980/572	
		Travis S. Carr, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC	18.75%	947/37 0.00%
			SWN Production Company, LLC	980/572	
		Sara S. Hupp, a single woman	SWN Production Company, LLC	18.75%	1020/465 0.00%
15	4-R13-1.13	David J. Scheinholtz, single	American Petroleum Partners Operating, LLC	18.75%	952/503 0.00%
			SWN Production Company, LLC	980/572	
		Edward Phillip Polack, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC	18.75%	947/70 0.00%
			SWN Production Company, LLC	980/572	
		Marsha H. Phillips and Allyssa B. Teske, as Co-Trustees of the Edward Bayne Phillips Trust, Dated February 9, 1995	American Petroleum Partners Operating, LLC	18.75%	953/715 0.00%
			SWN Production Company, LLC	980/572	
		Molly Haze Hupp, single	American Petroleum Partners Operating, LLC	18.75%	947/775 0.00%
			SWN Production Company, LLC	980/572	
		Nancy P. Carr and Robert E. Carr, wife and husband	American Petroleum Partners Operating, LLC	18.75%	947/48 0.00%
			SWN Production Company, LLC	980/572	
		Tiffany Judge, a married woman dealing in her sole and separate property	American Petroleum Partners Operating, LLC	18.75%	947/59 0.00%
			SWN Production Company, LLC	980/572	
		Travis S. Carr, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC	18.75%	947/37 0.00%
			SWN Production Company, LLC	980/572	
16	4-R13-1.17	David J. Scheinholtz, single	American Petroleum Partners Operating, LLC	18.75%	952/503 0.00%
			SWN Production Company, LLC	980/572	
		Edward Phillip Polack, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC	18.75%	947/70 0.00%
			SWN Production Company, LLC	980/572	
		Molly Haze Hupp, single	American Petroleum Partners Operating, LLC	18.75%	947/775 0.00%

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			SWN Production Company, LLC		980/572	
		Nancy P. Carr and Robert E. Carr, wife and husband	American Petroleum Partners Operating, LLC	18.75%	947/48	0.00%
			SWN Production Company, LLC		980/572	
		Thomas B. Grimes, Trustee of the Archie Todd Hupp, IV Special Needs Trust	American Petroleum Partners Operating, LLC	18.75%	948/13	0.00%
			SWN Production Company, LLC		980/572	
		Tiffany Judge, a married woman dealing in her sole and separate property	American Petroleum Partners Operating, LLC	18.75%	947/59	0.00%
			SWN Production Company, LLC		980/572	
		Travis S. Carr, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC	18.75%	947/37	0.00%
			SWN Production Company, LLC		980/572	
		Sara S. Hupp, a single woman	SWN Production Company, LLC	18.75%	1020/465	0.00%
17	4-R13-1.11	David J. Scheinholtz, single	American Petroleum Partners Operating, LLC	18.75%	952/503	0.00%
			SWN Production Company, LLC		980/572	
		Edward Phillip Polack, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC	18.75%	947/70	0.00%
			SWN Production Company, LLC		980/572	
		Marsha H. Phillips and Allyssa B. Teske, as Co-Trustees of the Edward Bayne Phillips Trust, Dated February 9, 1995	American Petroleum Partners Operating, LLC	18.75%	953/715	0.00%
			SWN Production Company, LLC		980/572	
		Molly Haze Hupp, single	American Petroleum Partners Operating, LLC	18.75%	947/775	0.00%
			SWN Production Company, LLC		980/572	
		Thomas B. Grimes, Trustee of the Archie Todd Hupp, IV Special Needs Trust	American Petroleum Partners Operating, LLC	18.75%	948/13	0.00%
			SWN Production Company, LLC		980/572	
		John R. Prather and Beth M. Prather, husband and wife	American Petroleum Partners Operating, LLC	18.75%	968/692	0.00%
			SWN Production Company, LLC		980/572	
		Sara S. Hupp, a single woman	SWN Production Company, LLC	18.75%	1020/465	0.00%
18	4-R10-44.1	Ellen Clarice Mull, divorced and not remarried, Edward Albert Neitzel, Jr., divorced and not remarried and Mary Anne Anderson, divorced and not remarried	American Petroleum Partners Operating, LLC	15.00%	947/786	0.00%
			SWN Production Company, LLC		980/572	
19	4-R10-47	David J. Scheinholtz, single	American Petroleum Partners Operating, LLC	18.75%	952/503	0.00%
			SWN Production Company, LLC		980/572	
		Edward Phillip Polack, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC	18.75%	947/70	0.00%
			SWN Production Company, LLC		980/572	
		Marsha H. Phillips and Allyssa B. Teske, as Co-Trustees of the Edward Bayne Phillips Trust, Dated February 9, 1995	American Petroleum Partners Operating, LLC	18.75%	953/715	0.00%
			SWN Production Company, LLC		980/572	
		Molly Haze Hupp, single	American Petroleum Partners Operating, LLC	18.75%	947/775	0.00%

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			SWN Production Company, LLC		980/572	
		Thomas B. Grimes, Trustee of the Archie Todd Hupp, IV Special Needs Trust	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.75%	948/13	0.00%
		John R. Prather and Beth M. Prather, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.75%	968/692	0.00%
		Sara S. Hupp, a single woman	SWN Production Company, LLC	18.75%	1020/465	0.00%
20	4-R10-2	Royalty Owners	N/A	N/A	N/A	74.44%
		Wilbert E. Myers, III, and Jacqueline S. Myers, husband and wife	SWN Production Company, LLC	17.00%	977/749	
		Stephen R. Magee, a single man	SWN Production Company, LLC	14.00%	1044/334	
		Timothy Ray Johnson and Pamela R. Johnson, husband and wife	SWN Production Company, LLC	14.00%	1042/286	
		Kenneth J. Magee and Dorothy Magee, husband and wife	SWN Production Company, LLC	14.00%	1044/130	
		Marilyn Vera Hasart, a widow	SWN Production Company, LLC	14.00%	1047/127	
		Susan Magee Rinebolt and Bruce Rinebolt, wife and husband	SWN Production Company, LLC	14.00%	1047/120	
		Skipper S. Magee and Janet E. Magee, husband and wife	SWN Production Company, LLC	14.00%	1047/174	
		Patricia A. West f/k/a Patricia A. Hamilton and Roy W. West, wife and husband	SWN Production Company, LLC	14.00%	1044/341	
		Donald Mark Magee and Emelia Magee, husband and wife	SWN Production Company, LLC	14.00%	1047/134	
		Timothy D. Magee and Ruth W. Magee, husband and wife	SWN Production Company, LLC	14.00%	1046/23	
		Michael R. Magee, a single man	SWN Production Company, LLC	14.00%	1047/142	
		E. Throop Geer, III, a single man	SWN Production Company, LLC	15.00%	1047/10	
		Christopher M. Geer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/418	
		Richard Lloyd Dewey, a single man	SWN Production Company, LLC	15.00%	1049/718	
		Frederick N. Dewey, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/554	
		Rial Rolfe, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/727	
		Cynthia D. Rolfe, a single woman	SWN Production Company, LLC	15.00%	1049/703	
		Julia Yvonne Cooper, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1052/72	
		Rebecca Irene Bennett, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1049/467	
		Ronald S. Vollmer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1047/205	
		Suzanne C. Geer, a single woman	SWN Production Company, LLC	15.00%	1047/111	
		Jacalyn L. McDonald, a married woman	SWN Production Company, LLC	15.00%	1044/121	
		Grant Sohm Elder, a single man	SWN Production Company, LLC	15.00%	1044/92	
		Chauncey P. Dewey, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1055/181	
		Daniel William Cisney, a single man	SWN Production Company, LLC	18.00%	1055/173	
		Macy Baruch, a widow	SWN Production Company, LLC	15.00%	1061/291	

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		Margaret Hicks, a widow	SWN Production Company, LLC	15.00%	1068/378
		Ricky Rolfe, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1050/210
		Sandra Mayberry, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1050/240
		William F. Vollmer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1061/121
		Sandra Lee Johnson Burreson Hartford and Carl Hartford, wife and husband	SWN Production Company, LLC	15.00%	1068/666
21	4-R10-43.3	Royalty Owners	N/A	N/A	N/A
		Timothy D. Magee and Ruth W. Magee, husband and wife	SWN Production Company, LLC	14.00%	1038/229
		Marilyn Vera Hasart, a widow	SWN Production Company, LLC	14.00%	1042/361
		Mark Ross Magee and Leisa K. Magee, husband and wife	SWN Production Company, LLC	16.00%	1040/115
		Susan Magee Rinebolt and Bruce Rinebolt, wife and husband	SWN Production Company, LLC	14.00%	1040/88
		Stephen R. Magee, a single man	SWN Production Company, LLC	14.00%	1038/270
		Skipper S. Magee and Janet E. Magee, husband and wife	SWN Production Company, LLC	14.00%	1038/254
		Timothy Ray Johnson and Pamela R. Johnson, husband and wife	SWN Production Company, LLC	14.00%	1038/238
		Patricia A. West f/k/a Patricia A. Hamilton and Roy W. West, wife and husband	SWN Production Company, LLC	14.00%	1040/1
		Michael R. Magee, a single man	SWN Production Company, LLC	14.00%	1038/278
		Kenneth J. Magee and Dorothy Magee, husband and wife	SWN Production Company, LLC	14.00%	1036/444
		Donald Mark Magee and Emelia Matias husband and wife	SWN Production Company, LLC	14.00%	1040/15
		Sandra Lee Johnson Burreson Hartford and Carl Hartford, wife and husband	SWN Production Company, LLC	14.00%	1038/286
		E. Throop Geer, III, a single man	SWN Production Company, LLC	15.00%	1047/10
		Christopher M. Geer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/418
		Richard Lloyd Dewey, a single man	SWN Production Company, LLC	15.00%	1049/718
		Frederick N. Dewey, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/554
		Rial Rolfe, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/727
		Cynthia D. Rolfe, a single woman	SWN Production Company, LLC	15.00%	1049/703
		Julia Yvonne Cooper, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1052/72
		Rebecca Irene Bennett, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1049/467
		Ronald S. Vollmer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1047/205
		Suzanne C. Geer, a single woman	SWN Production Company, LLC	15.00%	1047/111
		Jacalyn L. McDonald, a married woman	SWN Production Company, LLC	15.00%	1044/121
		Grant Sohm Elder, a single man	SWN Production Company, LLC	15.00%	1044/92
		Chauncey P. Dewey, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1055/181
		Daniel William Cisney, a single man	SWN Production Company, LLC	18.00%	1055/173
		Macy Baruch, a widow	SWN Production Company, LLC	15.00%	1061/291

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	Margaret Hicks, a widow	SWN Production Company, LLC	15.00%	1068/378
	Ricky Rolfe, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1050/210
	Sandra Mayberry, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1050/240
	William F. Vollmer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1061/121
22	4-R10-43.4 Royalty Owners	N/A	N/A	N/A 88.61%
	Timothy D. Magee and Ruth W. Magee, husband and wife	SWN Production Company, LLC	14.00%	1038/229
	Marilyn Vera Hasart, a widow	SWN Production Company, LLC	14.00%	1042/361
	Mark Ross Magee and Leisa K. Magee, husband and wife	SWN Production Company, LLC	16.00%	1040/115
	Susan Magee Rinebolt and Bruce Rinebolt, wife and husband	SWN Production Company, LLC	14.00%	1040/88
	Stephen R. Magee, a single man	SWN Production Company, LLC	14.00%	1038/270
	Skipper S. Magee and Janet E. Magee, husband and wife	SWN Production Company, LLC	14.00%	1038/254
	Timothy Ray Johnson and Pamela R. Johnson, husband and wife	SWN Production Company, LLC	14.00%	1038/238
	Patricia A. West f/k/a Patricia A. Hamilton and Roy W. West, wife and husband	SWN Production Company, LLC	14.00%	1040/1
	Michael R. Magee, a single man	SWN Production Company, LLC	14.00%	1038/278
	Kenneth J. Magee and Dorothy Magee, husband and wife	SWN Production Company, LLC	14.00%	1036/444
	Donald Mark Magee and Emelia Matias husband and wife	SWN Production Company, LLC	14.00%	1040/15
	Sandra Lee Johnson Burreson Hartford and Carl Hartford, wife and husband	SWN Production Company, LLC	14.00%	1038/286
	E. Throop Geer, III, a single man	SWN Production Company, LLC	15.00%	1047/10
	Christopher M. Geer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/418
	Richard Lloyd Dewey, a single man	SWN Production Company, LLC	15.00%	1049/718
	Frederick N. Dewey, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/554
	Rial Rolfe, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/727
	Cynthia D. Rolfe, a single woman	SWN Production Company, LLC	15.00%	1049/703
	Julia Yvonne Cooper, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1052/72
	Rebecca Irene Bennett, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1049/467
	Ronald S. Vollmer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1047/205
	Suzanne C. Geer, a single woman	SWN Production Company, LLC	15.00%	1047/111
	Jacalyn L. McDonald, a married woman	SWN Production Company, LLC	15.00%	1044/121
	Grant Sohm Elder, a single man	SWN Production Company, LLC	15.00%	1044/92
	Chauncey P. Dewey, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1055/181
	Daniel William Cisney, a single man	SWN Production Company, LLC	18.00%	1055/173
	Macy Baruch, a widow	SWN Production Company, LLC	15.00%	1061/291
	Margaret Hicks, a widow	SWN Production Company, LLC	15.00%	1068/378

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		Ricky Rolfe, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1050/210	
		Sandra Mayberry, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1050/240	
		William F. Vollmer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1061/121	
/ 23	4-R10-6.1	Richard Edward Heberlig, Jr., a single man	SWN Production Company, LLC	18.00%	959/632	0.00%
/ 24	4-R10-6	Kenneth Coffman, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	958/13	0.00%
/ 25	4-R10M-10	Leonard E. Coffman and Mary K. Coffman, husband and wife	SWN Production Company, LLC	18.00%	1038/323	0.00%
/ 26	4-R10M-3.2	Leonard E. Coffman and Mary K. Coffman, husband and wife	SWN Production Company, LLC	18.00%	1038/323	0.00%
/ 27	4-R10M-3.1	Leonard E. Coffman and Mary K. Coffman, husband and wife	SWN Production Company, LLC	18.00%	1038/323	0.00%
/ 28	4-R10M-3	Mark D. Panepinto and Mindy D. Panepinto, husband and wife	SWN Production Company, LLC	18.00%	997/103	0.00%
/ 29	4-R10-13	H3, LLC	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	949/449 980/572	0.00%
/ 30	4-R10-14	North Fork Landfill, Inc.	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.50%	954/190 980/572	0.00%
/ 31	4-R10-15	Pamela M. Persinger and Rodney Persinger, wife and husband	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	939/159 980/572	0.00%
/ 32	4-R10-19	Joseph R. Rohrig, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.50%	953/381 980/572	0.00%
		Shawn P. Rohrig, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.50%	953/374 980/572	0.00%
		Susan J. Sarkis, a married woman dealing in her sole and separate property	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.50%	952/514 980/572	0.00%
		Robert F. Rohrig, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.50%	952/519 980/572	0.00%
/ 33	4-R10-43	North Fork Landfill, Inc.	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.50%	954/190 980/572	0.00%
/ 34	4-R7-30	Dennis McGlaughlin and Susan McGlaughlin, his wife	SWN Production Company, LLC	18.00%	1040/80	0.00%
/ 35	2-CV6-34.1	Clearview Volunteer Fire Department, Inc.	SWN Production Company, LLC	18.00%	1045/122	0.00%
/ 36	2-CV5-31	Thomas Lee Wickham, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	1055/723	0.00%
/ 37	2-CV5-30.1	The Village of Clearview	SWN Production Company, LLC	18.00%	1059/441	0.00%
/ 38	2-CV5-26	Mark G. Jarrett, widower	SWN Production Company, LLC	18.00%	1049/563	0.00%
/ 39	2-CV5-27	Shawn R. Pennybacker and Vicki I. Pennybacker, husband and wife	SWN Production Company, LLC	18.00%	1058/103	0.00%
/ 40	2-CV5-25	Jack E. Maynard and Cynthia L. Maynard, husband and wife	SWN Production Company, LLC	15.00%	988/247	0.00%
/ 41	2-CV5-24	Sherry L. Stanley and Ronell (sic) Stanley, Jr., her husband	SWN Production Company, LLC	14.00%	989/650	0.00%

11/29/2024

EXHIBIT "A"  
 Shannon Fields OHI 3H  
 Ohio County, West Virginia

4706900375

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

42	2-CV5-23	William Gregory Crabtree and Marla Lynn Crabtree, husband and wife	SWN Production Company, LLC	14.00%	989/643	0.00%
43	2-CV5-22.1	David A. Squier and Dana R. Squier, husband and wife	SWN Production Company, LLC	17.00%	993/118	0.00%
44	2-CV5-20	Thomas A. Goudy and Sandra K. Goudy, husband and wife	SWN Production Company, LLC	17.00%	1049/569	0.00%
45	4-R7L-114	Richard J. Robinson, a single man	SWN Production Company, LLC	17.00%	1042/303	0.00%
46	10-W1A-107	Joseph T. Cupp and Amy Jo Cupp, husband and wife	SWN Production Company, LLC	14.00%	985/507	0.00%
47	4-R7L-98.2	Robert Lennox and Deborah Lennox, husband and wife	SWN Production Company, LLC	14.00%	989/629	0.00%
48	4-R7L-120	James Cochran Carroll and Rose Marie Ann Carroll, husband and wife	SWN Production Company, LLC	17.00%	990/671	0.00%
49	4-R7L-86.3	Richard R. Chiplinski and Deborah J. Chiplinski, husband and wife	SWN Production Company, LLC	18.00%	1068/488	0.00%
50	4-R7L-105	The City of Wheeling	SWN Production Company, LLC	18.00%	967/380	0.00%
51	4-R7L-100	The City of Wheeling	SWN Production Company, LLC	18.00%	967/380	0.00%
52	4-R7L-99	Kimberly L. MacFarland and Darin P. MacFarland, husband and wife	SWN Production Company, LLC	16.00%	995/515 1073/253	0.00%
53	4-R7G-25	The City of Wheeling	SWN Production Company, LLC	18.00%	967/380	0.00%
54	4-R7-18	The City of Wheeling, a Municipal Corporation	SWN Production Company, LLC	18.00%	1038/524	0.00%
55	4-R7-6	Michael L. Fluharty and Brenda K. Fluharty, husband and wife	SWN Production Company, LLC	18.00%	1055/695	0.00%
56	4-R7L-56.5	Royalty Owners	N/A	N/A	N/A	100.00%
57	4-R7L-56.4	Royalty Owners	N/A	N/A	N/A	100.00%
58	4-R7L-56	Volusia Ventures, LLC	SWN Production Company, LLC	16.00%	1065/669	0.00%
59	4-R7L-56.3	Royalty Owners	N/A	N/A	N/A	100.00%
T124	4-R14J-11	Peter P. Chiazza and Audrey D. Chiazza, husband and wife	SWN Production Company, LLC	14.00%	994/86	0.00%
M143	4-R10M-3.4	Randy L. Green, a single man	SWN Production Company, LLC	14.00%	985/72	0.00%
N222	4-R7L-118	Robert Lennox and Deborah Lennox, husband and wife	SWN Production Company, LLC	14.00%	989/629	0.00%
O223	4-R7L-85.3	Royalty Owners	N/A	N/A	N/A	100.00%
J244	4-R7L-92	Kimberly MacFarland, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	966/445	0.00%
T332	4-R14-15	Wheeling Park Commission, a Public Corporation and Governmental Subdivision of the City of Wheeling and the City of Wheeling, a Municipal Corporation	SWN Production Company, LLC	18.00%	978/248	0.00%
V334	10-W27A-1	Anna M. Govindan, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	18.00%	846/125	0.00%
			SWN Production Company, LLC		885/212	
F344	4-R14J-9	Royalty Owners	N/A	N/A	N/A	100.00%
P354	4-R10-5	Royalty Owners	N/A	N/A	N/A	88.61%
		Timothy D. Magee and Ruth W. Magee, husband and wife	SWN Production Company, LLC	14.00%	1038/229	
		Marilyn Vera Hasart, a widow	SWN Production Company, LLC	14.00%	1042/361	
		Mark Ross Magee and Leisa K. Magee, husband and wife	SWN Production Company, LLC	16.00%	1040/115	
		Susan Magee Rinebolt and Bruce Rinebolt, wife and husband	SWN Production Company, LLC	14.00%	1040/88	
		Stephen R. Magee, a single man	SWN Production Company, LLC	14.00%	1038/270	

11/29/2024

EXHIBIT "A"  
 Shannon Fields OHI 3H  
 Ohio County, West Virginia

4706900375

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

Skipper S. Magee and Janet E. Magee, husband and wife	SWN Production Company, LLC	14.00%	1038/254
Timothy Ray Johnson and Pamela R. Johnson, husband and wife	SWN Production Company, LLC	14.00%	1038/238
Patricia A. West f/k/a Patricia A. Hamilton and Roy W. West, wife and husband	SWN Production Company, LLC	14.00%	1040/1
Michael R. Magee, a single man	SWN Production Company, LLC	14.00%	1038/278
Kenneth J. Magee and Dorothy Magee, husband and wife	SWN Production Company, LLC	14.00%	1036/444
Donald Mark Magee and Emelia Matias husband and wife	SWN Production Company, LLC	14.00%	1040/15
Sandra Lee Johnson Burreson Hartford and Carl Hartford, wife and husband	SWN Production Company, LLC	14.00%	1038/286
E. Throop Geer, III, a single man	SWN Production Company, LLC	15.00%	1047/10
Christopher M. Geer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/418
Richard Lloyd Dewey, a single man	SWN Production Company, LLC	15.00%	1049/718
Frederick N. Dewey, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/554
Rial Rolfe, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/727
Cynthia D. Rolfe, a single woman	SWN Production Company, LLC	15.00%	1049/703
Julia Yvonne Cooper, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1052/72
Rebecca Irene Bennett, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1049/467
Ronald S. Vollmer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1047/205
Suzanne C. Geer, a single woman	SWN Production Company, LLC	15.00%	1047/111
Jacalyn L. McDonald, a married woman	SWN Production Company, LLC	15.00%	1044/121
Grant Sohm Elder, a single man	SWN Production Company, LLC	15.00%	1044/92
Chauncey P. Dewey, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1055/181
Daniel William Cisney, a single man	SWN Production Company, LLC	18.00%	1055/173
Macy Baruch, a widow	SWN Production Company, LLC	15.00%	1061/291
Margaret Hicks, a widow	SWN Production Company, LLC	15.00%	1068/378
Ricky Rolfe, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1050/210
Sandra Mayberry, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1050/240
William F. Vollmer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1061/121

END OF EXHIBIT "A"

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

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

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

OCT 24 2024

11/29/2024

October 11, 2024

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

Re: SWN's proposed New Well: Shannon Fields OHI 3H in Ohio County, West Virginia, drilling under Cherry Brook Dr., Warden Run Rd., Country Club Dr., Oglebay Drive, GC and P Road, Washington Farms Rd., Coyle Lane, Cherry Hill Road, Whitetail Dr., Clearview Ave. and Lyle Rd.

Dear Mr. Brewer:

SWN Production Company, LLC ("SWN"), a fully owned subsidiary of Expand Energy Corporation, 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 Cherry Brook Drive, Warden Run Road, Country Club Drive, Oglebay Drive, GC and P Road, Washington Farms Road, Coyle Lane, Cherry Hill Road, Whitetail Drive, Clearview Avenue and Lyle 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

OCT 24 2024



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

11/29/2024

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

**Notice is hereby given:**

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

**Paper:** The Intelligencer

**Public Notice Date:** September 3, 2024 & September 10, 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:** Shannon Fields OHI 3H

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

**Business Conducted:** Natural gas production.

**Location –**

State:	<u>West Virginia</u> ✓	County:	<u>Ohio</u> ✓
District:	<u>Richland</u> ✓	Quadrangle:	<u>Wheeling</u> ✓
UTM Coordinate NAD83 Northing:	<u>4,437,621</u>		
UTM coordinate NAD83 Easting:	<u>529,167</u>		
Watershed:	<u>Upper Ohio South</u>		

OCT 24 2024

**Coordinate Conversion:**

To convert the coordinates above into longitude and latitude, visit: [http://tagis.dep.wv.gov/convert/llutm\\_conus.php](http://tagis.dep.wv.gov/convert/llutm_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)



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

Date of Notice Certification: 10/23

API No. 47- 069 -  
Operator's Well No. Shannon Fields OHI 3H  
Well Pad Name: Shannon Fields OHI

**Notice has been given:**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>529,167.475</u>
County:	<u>069-Ohio</u>		Northing:	<u>4,437,620.565</u>
District:	<u>Richland</u>	Public Road Access:	<u>Boggs Hill Road (County Route 15/1)</u>	
Quadrangle:	<u>Wheeling</u>	Generally used farm name:	<u>Shannon Fields OHI</u>	
Watershed:	<u>Upper Ohio South</u>			

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:  *PLEASE CHECK ALL THAT APPLY  <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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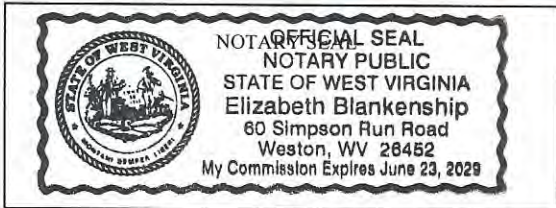
**Required Attachments:**  
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement 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.

47 0690 0375

**Certification of Notice is hereby given:**

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

Well Operator:	<u>SWN Production Co., LLC</u>	Address:	<u>1300 Fort Pierpont Dr., Suite 201</u>
By:	<u>Brittany Woody</u>		<u>Morgantown, WV 26508</u>
Its:	<u>Staff Regulatory Specialist</u>	Facsimile:	<u>304-884-1690</u>
Telephone:	<u>304-884-1610</u>	Email:	<u>Brittany_Woody@swn.com</u>



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

Elizabeth Blankenship Notary Public

My Commission Expires 6/23/2029

**Oil and Gas Privacy Notice:**

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

*[Faint, illegible stamp]*

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

4706900375

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

Date of Notice: 10/23 Date Permit Application Filed: 10/23

Notice of:

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

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

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

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

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

SURFACE OWNER(s)  
 Name: SWN Production Company, LLC Attn: Bob Laine  
 Address: 1300 Fort Pierpont Dr., Suite 201  
 Morgantown, WV 26508  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
 Name: H3, LLC  
 Address: 1483 Johns Creek Road  
 Milton WV 25541  
 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: \_\_\_\_\_  
 Address: \_\_\_\_\_

\*Please attach additional forms if necessary

11/29/2024

**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

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, 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

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.**

**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.

OCT 24 2024

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.

**Notice is hereby given by:**

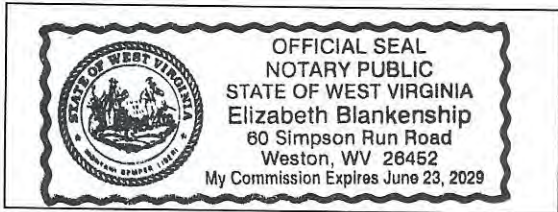
Well Operator: SWN Production Co., LLC  
Telephone: 304-884-1610  
Email: Brittany\_Woody@swn.com

*Brittany Woody*

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

**Oil and Gas Privacy Notice:**

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



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

Elizabeth Blankenship Notary Public

My Commission Expires 6/23/2029

OCT 24 2024

4706900375

**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: SWN Production Company, LLC Attn: Bob Laine  
 Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
 Name: H3, LLC  
 Address: 1483 Johns Creek Rd  
Milton, WV 25541

MINERAL OWNER(s)  
 Name: Shannon Field, LLC  
 Address: 10288 Amberwood Court  
Cincinnati, OH 45241  
 \*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>40.088496, -80.6567667</u>
County: <u>Ohio</u>	Public Road Access: <u>Boggs Hill Road (Country Route 15/1)</u>
District: <u>Richland</u>	Watershed: <u>Upper Ohio- Wheeling</u>
Quadrangle: <u>Wheeling</u>	Generally used farm name: <u>Shannon Field</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: <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>

**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).

11/29/2024



4706900375

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

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

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

**Date of Notice:** 09/05/2024 **Date Permit Application Filed:** 10/23

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

- HAND DELIVERY
- CERTIFIED MAIL RETURN RECEIPT REQUESTED

OCT 24 2024

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: Shannon Fields LLC  
Address: 10288 Amberwood Court  
Cincinnati, OH 45241

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

**Notice is hereby given:**

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

State: WV	UTM NAD 83	Easting: 529,167.475
County: OHIO		Northing: 4,437,620.565
District: RICHLAND	Public Road Access: Boggs Hill Road	
Quadrangle: WHEELING 7.5', WV	Generally used farm name: SHANNON FIELDS	
Watershed: UPPER OHIO SOUTH		

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 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: \_\_\_\_\_

**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).

11/29/2024

WW-6A5  
(1/12)

Operator Well No. SHANNON FIELDS OHS 3H

4706900375

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

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

**Date of Notice:** 09/05/2024 **Date Permit Application Filed:** 10/23

**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: Shannon Fields LLC  
Address: 10288 Amberwood Court  
Cincinnati, OH 45241

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: WV UTM NAD 83 Easting: 529,167.475  
County: OHIO Northing: 4,437,620.565  
District: RICHLAND Public Road Access: Boggs Hill Road  
Quadrangle: WHEELING 7.5', WV Generally used farm name: SHANNON FIELDS  
Watershed: UPPER OHIO SOUTH

**This Notice Shall Include:**

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

**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).

11/29/2024



4706900375

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 4, 2024

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

GCT 24 2024

Subject: DOH Permit for the Shannon Fields Well Pad, Ohio County  
Shannon Fields OHI 3H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2022-0043 which has been issued to SWN Production Company, LLC for access to the State Road for a well site located off Ohio County Route 15/1 SLS MP 3.41.

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

## 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
Ferriplex 80	Iron Control	Triethyl phosphate	78-40-0
		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
		Didecyltrimethylammonium 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

11/29/2024

OPERATOR: SWN Production Co., LLC

WELL NO: Shannon Fields OHI 3H

PAD NAME: Shannon Fields OHI

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

SIGNATURE: *Brittany Woody*

### WELL RESTRICTIONS CHECKLIST

#### HORIZONTAL 6A WELL

*01/21/2024*  
*BCT 2.4 2024*

#### Well Restrictions

**\*\*Pad Built 3/1/2022**

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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# SOUTHWESTERN PRODUCTION COMPANY, LLC PROPOSED CONSTRUCTION PLANS FOR SHANNON FIELDS PAD OHIO COUNTY, WV FEBRUARY 2022

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



6		
5		
4		
3		
2	3/9/2022 WVDF COMMENTS ADDRESSED	
1	3/1/2022 ADDENDUM #1	
NO.	DATE	DESCRIPTION

PREPARED FOR:

SWN QUICK ESTIMATE		
ITEM DESCRIPTION	UNIT	QUANTITY
MOBILIZATION & DEMOBILIZATION (LIMITED TO 5% OF BASE BID)	LS	1
CLEARING & GRUBBING	AC	1.0
TOPSOIL STRIPPING, STOCKPILING, AND REDISTRIBUTION (ASSUMED 9" DEEP)	CY	14,900
EARTHWORK	CY	117,200
EXPORT (COAL / CARBONACEOUS MATERIAL)	CY	5,500
STRUCTURAL GEOGRID	SY	70,950
SOIL TOE KEY 9" DEEP (INCLUDES EXCAVATION, PIPE, STONE, FABRIC, & COLLECTION DRAINS) - (STONE BY SWN)	LF	2,350
SOIL TOE KEY 3" DEEP (INCLUDES EXCAVATION, PIPE, STONE, FABRIC, & COLLECTION DRAINS) - (STONE BY SWN)	LF	900
INTERMEDIATE TOE KEY (APPROX. EL. 1210) (INCLUDES EXCAVATION, PIPE, STONE, & FABRIC) - (STONE BY SWN)	LF	1,090
WELL PAD CONTAINMENT BERM	LF	1,750
SEEDING & MULCHING (INCLUDES FERTILIZER)	AC	7.50
1.5" CRUSHER RUN LIMESTONE FOR WELL PAD (4") - (PLACEMENT ONLY, STONE IS PURCHASED AND DELIVERED BY SWN)	TN	4,675
AASHTO NO. 1 STONE - (PLACEMENT ONLY, STONE IS PURCHASED AND DELIVERED BY SWN)	TN	5,200
8% CEMENT STABILIZATION FOR WELL PAD (12")	SY	22,140
2" OF 12.5 MM WEARING COURSE ASPHALT	TN	480
3" OF 25 MM BASE COURSE ASPHALT	TN	720
8% CEMENT STABILIZATION FOR ACCESS ROAD (12")	SY	4,400
STABILIZED CONSTRUCTION ENTRANCE - (STONE BY SWN)	EA	1
GUARDRAIL, INCLUDES (2) TERMINAL ENDS	LF	780
ROCK LINED DITCH - PLACEMENT ONLY - (STONE BY SWN)	LF	1,185
ROCK CHECK DAMS - PLACEMENT ONLY - (STONE BY SWN)	EA	5
GRASS LINED DITCH WITH FROSION CONTROL BLANKET	LF	400
8" COMPOST FILTER SOCK	LF	1,300
24" COMPOST FILTER SOCK	LF	3,575
24" HDPE CULVERT	LF	310
DEWATERING SHUMP, COMPLETE (INCL. SLOPE PIPE, PIPE LEVEL SPREADERS, BOLLARDS, ETC. PER DETAIL SHEET 33) - (STONE BY SWN)	EA	6
OUTLET PROTECTION - PLACEMENT ONLY - (STONE BY SWN)	EA	4
2" GAS LINE CROSSING AT ENTRANCE (COORDINATE W/ MOUNTAINEER GAS COMPANY, NORTHERN OPERATIONS)	EA	1

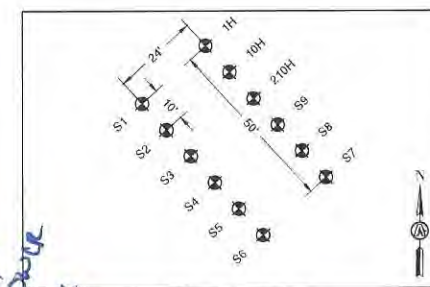


LOCATION COORDINATES		
<b>ACCESS ROAD ENTRANCE:</b>		
LATITUDE: 40.088886 N	LONGITUDE: 80.054274 W	(DECIMAL DEGREES)
LATITUDE: 40°05'19.99" N	LONGITUDE: 80°39'15.39" W	(DEGREES-MINUTES-SECONDS)
NORTHING: 580806.7990	EASTING: 1645952.3116	(WV SP-83, FEET)
NORTHING: 4437679.933	EASTING: 529472.799	(UTM ZONE 17, METERS)
<b>WELL PAD CENTER:</b>		
LATITUDE: 40.088466 N	LONGITUDE: 80.057067 W	(DECIMAL DEGREES)
LATITUDE: 40°05'18.59" N	LONGITUDE: 80°39'27.60" W	(DEGREES-MINUTES-SECONDS)
NORTHING: 580677.3862	EASTING: 1644601.2759	(WV SP-83, FEET)
NORTHING: 4437635.659	EASTING: 529183.728	(UTM ZONE 17, METERS)

LIMITS OF DISTURBANCE BY PROPERTY:		
PROPERTY#	PROPERTY OWNER	ACRES DISTURBED
35-04-0R17-0023-0002	SHANNON FIELDS, LLC	29.94

**TOTAL DISTURBED AREA: 20.94 ACRES**  
ROAD DISTURBED AREA: 3.04 ACRES  
PAD DISTURBED AREA: 17.00 ACRES

EARTH WORK SUMMARY	
TOTAL CUT:	117,200 CY
TOTAL FILL:	86,900 CY
EXPORT: (CARBONACEOUS MATERIAL)	5,500 CY
WASTE:	10,000 CY
TOPSOIL: ASSUMED 9" (AVG. DEPTH)	14,800 CY



- DRIVING DIRECTIONS**
- 1) HEAD NORTH ON FORT PIERPONT DR
  - 2) TURN RIGHT ONTO N PIERPONT RD, .482 FEET
  - 3) TURN RIGHT ONTO CHEAT RD, 0.8 MILES
  - 4) TURN LEFT TO MERGE ONTO I-68 W TOWARD I-79, 0.5 MILES
  - 5) MERGE ONTO I-68 W, 6.1 MILES
  - 6) TAKE THE EXIT ONTO I-79 N TOWARD WASHINGTON, 45.3 MILES
  - 7) TAKE THE EXIT ONTO I-79 W/I-79 N TOWARD WASHINGTON, 30.1 MILES
  - 8) TAKE EXIT 5 FOR US-40 TOWARD VA-88 S/ELM GROVE/TRIADPHIA, 0.3 MILES
  - 9) KEEP RIGHT, MERGE ONTO US-40 ENATIONAL ROAD, 171 FT
  - 10) MERGE ONTO US-40 ENATIONAL ROAD, 0.8 MILES
  - 11) TURN LEFT ONTO PETERS RUN ROAD, 3.0 MILES
  - 12) TURN LEFT ONTO WARDEN RUN ROAD, 1.1 MILES
  - 13) TURN LEFT ONTO BOGGS HILL ROAD, CONTINUE TO SITE ON RIGHT, 0.7 MILES

**PROJECT COORDINATOR:**  
JOHN DUBOWSKI  
CONSTRUCTION SUPERINTENDENT  
SOUTHWESTERN PRODUCTION COMPANY, LLC  
1300 FORT PIERPONT DRIVE, SUITE 201,  
MORGANTOWN, WV 26508  
PHONE: (304) 884 - 1671  
EMAIL: JOHN\_DUBOWSKI@SWN.COM

**ENGINEER:**  
ERIC SCHRAMM  
ASCENT CONSULTING & ENGINEERING  
2361 DAVISSON RUN ROAD  
CLARKSBURG, WV 26301  
PHONE: (304) 933 - 3463  
EMAIL: ERIC@ASCENTCONSULTINGENGINEERS.COM

**PROJECT MANAGER:**  
ZACHARY ASSARO  
ASCENT CONSULTING & ENGINEERING  
2361 DAVISSON RUN ROAD  
CLARKSBURG, WV 26301  
PHONE: (304) 933 - 3463  
EMAIL: ZACH@ASCENTCONSULTINGENGINEERS.COM

**ENVIRONMENTAL:**  
WETLANDS OR SURFACE WATER  
INFORMATION WAS DELINEATED BY  
ENVIRIOSCIENCE, INC.  
DATED MARCH 2021

**TOPOGRAPHIC INFORMATION:**  
HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE  
NAD83 WEST VIRGINIA STATE PLANES, NORTH  
ZONE, IN U.S. SURVEY FEET.

**UTILITY CONTACT INFORMATION:**  
ALEXANDER SCHRAMM,  
ENGINEER, NORTHERN OPERATIONS  
MOUNTAINEER GAS COMPANY  
P.O. BOX 6232, WHEELING, WV 26003  
1-888-420-4427  
EMAIL: ALEXSCHRAMM@MGCWV.COM

*State County  
Straddle Issue  
9/18/2024*



PREPARED BY:

2361 DAVISSON RUN ROAD  
CLARKSBURG, WV 26301  
WWW.ASCENTCONSULTINGENGINEERS.COM  
(304) 933 - 3463

PROJECT NUMBER:	2326	DRAWN:	EMS
DATE:	03/09/2022	DESIGN:	EMS
SCALE:	AS SHOWN	CHECKED:	MRN

CONSTRUCTION PLANS FOR  
SWN PRODUCTION COMPANY, LLC  
SHANNON FIELDS PAD  
TRIADPHIA  
OHIO COUNTY, WV

TITLE:	COVER SHEET
PLAN STATUS:	APPROVED FOR BIDDING
SHEET No.	1

CAD FILE: S:\Projects\2201-2050\Projects\2201-2050\_SWN - Shannon Fields Pad\Drawings\2201-2050-Cover Sheet.dwg  
 PLOT DATE/TIME: 3/17/2022 11:13 AM

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 03/19/2022