



west virginia department of environmental protection

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

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

Monday, November 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 5H
47-069-00376-00-00

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

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

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

James A. Martin
Chief

Operator's Well Number: SHANNON FIELDS OHI 5H
Farm Name: SWN PRODUCTION COMPANY
U.S. WELL NUMBER: 47-069-00376-00-00
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.

CONDITIONS

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

11/29/2024

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 5H 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- 6025', Target Base TVD- 6084', Anticipated Thickness- 59', Associated Pressure- 3955

8) Proposed Total Vertical Depth: 6073'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 32647'

11) Proposed Horizontal Leg Length: 25,833.24'

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. Strader
STRADER
9/18/2024

18)

CASING AND TUBING PROGRAM

<u>TYPE</u>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
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#	32647'	32647' ✓	Tail 6247x/ 100' Inside Intermediate
Tubing							
Liners							

OCT 24 2024

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

PACKERS

Kind:				
Sizes:				
Depths Set:				

John Strader
 STRADER WORKS
 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.)

OCT 24 2024

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 ***

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.

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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>	XXXXXXXXXX	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION <small>up to 3%</small>	XXXXXXXXXX	INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	CJIO	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
INTERMEDIATE	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L	XXXXXXXXXX	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	XXXXXXXXXX	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	XXXXXXXXXX	XXXXXXXXXX	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETARY
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
PRODUCTION	XXXXXXXXXX	XXXXXXXXXX	CJIII	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	XXXXXXXXXX	55-IIW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	XXXXXXXXXX	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	XXXXXXXXXX	XXXXXXXXXX	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	XXXXXXXXXX	XXXXXXXXXX	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	XXXXXXXXXX	XXXXXXXXXX	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	XXXXXXXXXX	XXXXXXXXXX	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	XXXXXXXXXX	FL-66	0501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
	XXXXXXXXXX	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	XXXXXXXXXX	VISCO SIER/ANTI-SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3	XXXXXXXXXX	CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065	XXXXXXXXXX	XXXXXXXXXX	DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
D800	XXXXXXXXXX	XXXXXXXXXX	CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE	8061-51-6	

11/29/2024

4706900376

Southwestern Energy Company

Proposed Drilling Program

Well: SHANNON FIELDS OHI 5
 Field: PANHANDLE FIELD - WET
 County: OHIO
 SHL (NAD83): 40.088387 Latitude -80.657890 Longitude
 BHL (NAD83): 40.153859 Latitude -80.696904 Longitude
 KB Elev: 1,262 ft MSL KB Height: 26 ft AGL

Drilling Rig: SDC 41
 Formation: Marcellus Shale
 State: WV
 GL Elev: 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'	32,647'

CEMENT DETAIL

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	594	A	15.6
Intermediate	767	A	15.6
Production	6247	A	14.5-15.0

Drilled
 OCT 24 2024
Equal



KOP at 5,782' MD

Freshwater Depth - 351' TVD
 Coal Void Depth - 482' TVD
 Saltwater Depth - 601' TVD
 TVD - 6,073'
 TMD - 32,647'

6,064' TVD Target Center

TD at 32,647' MD
 6,073' TVD

LP at 6,803' MD

SHL Onondaga 6,084' TVD

Onondaga 6,093' TVD

6,803' to 32,647'
 12.5-13.5 ppg

Created by: Sebastian Ziaja on 08/28/2024

Strader Gower
 STRADER GOWER
 9/18/2024

11/29/2024

WW-9
(4/16)

706900376

API Number 47 - 069 -
Operator's Well No. Shannon Fields OHI 5H

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 SOBMs from KOP to TD

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

Additives to be used in drilling medium? Attachment 3B

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

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

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

Apex Sanitary Landfill U6-U8438, 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



Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Attachment 3C

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre

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: Steve Gower STRADER GOWER

Comments: _____

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

Field Reviewed? () Yes () No

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

4706900376



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



API NO. 47-XXX-XXXXX
WELL NAME: Shannon Fields OHI 5H
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 Inspector

Approved by:

Name: _____

Date: _____

Title: _____

SWN PRODUCTION COMPANY, LLC – CONFIDENTIAL

11/29/2024

4706900376



SHANNON FIELDS

OHIO

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

Water Purveyor Map



- Water Sources**
- Type
 - Spring
 - Water Well
 - Pond
 - 1500 ft. Buffer

WELL PAD:
SHANNON FIELDS-OHI-PAD1

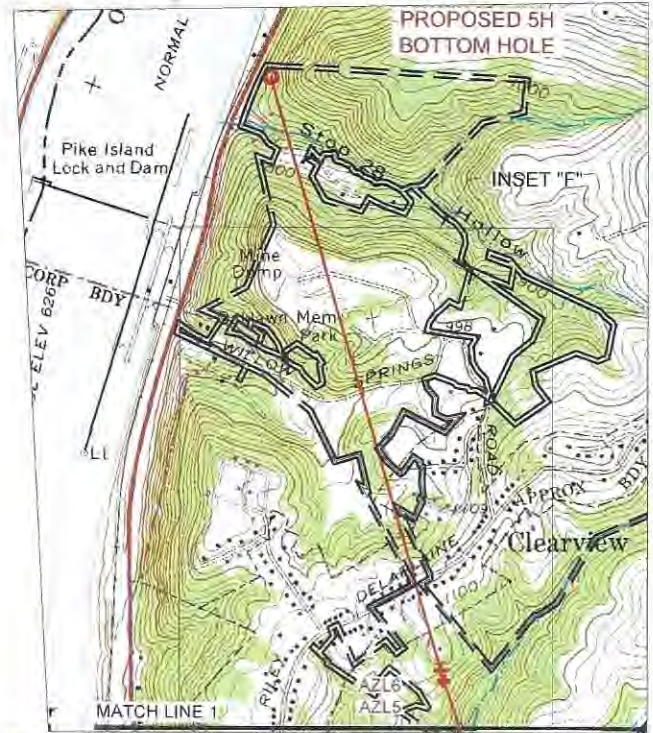
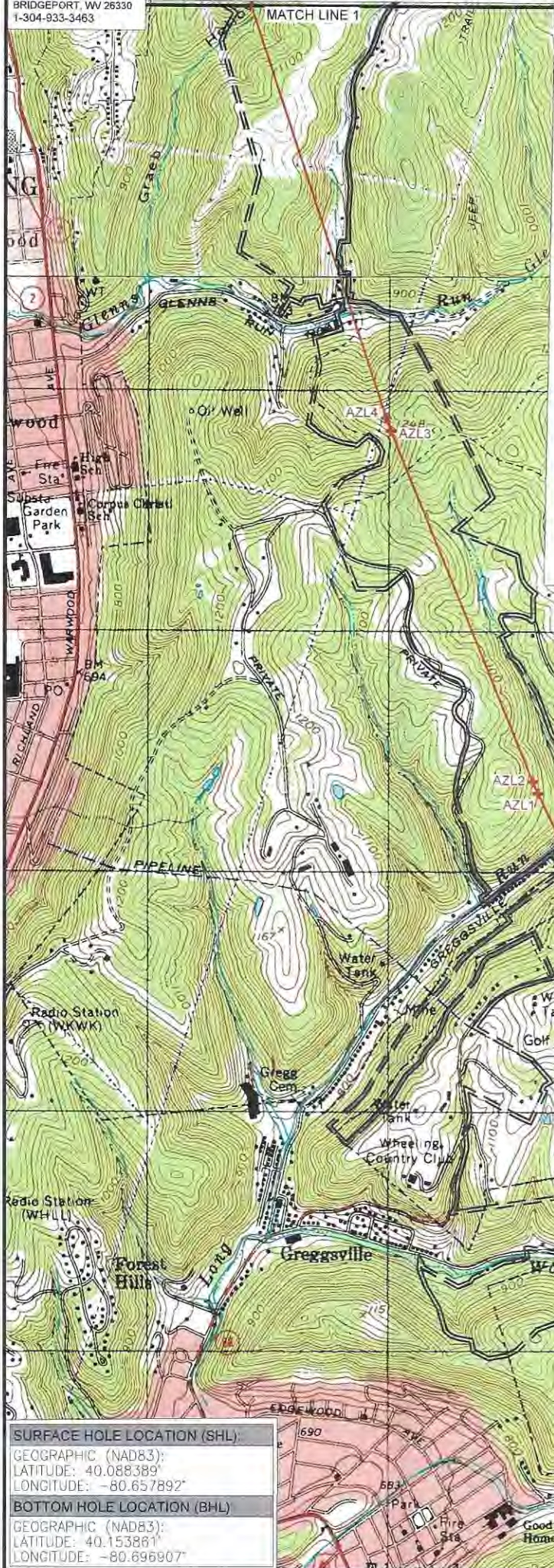
COUNTY:
OHIO

Scale: 1:6,033

11/29/2024



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



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.088389°
LONGITUDE: -80.657892°

BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.153881°
LONGITUDE: -80.696907°



NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAN 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

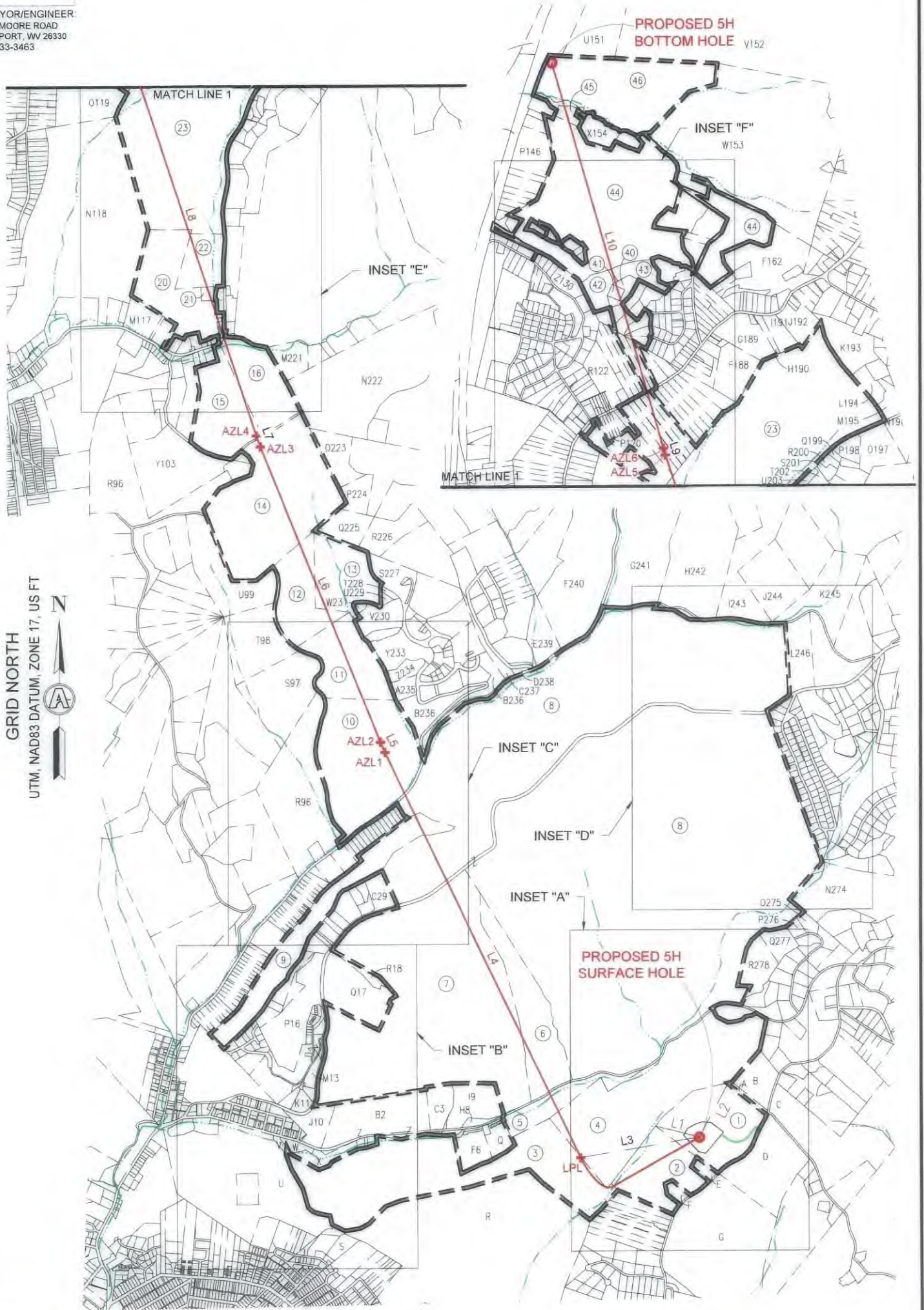
11/29/2024

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

WELL (FARM) NAME: SHANNON FIELDS OHI	WELL # 5H	SERIAL # XXXX
COUNTY - CODE OHIO - 35	DISTRICT; RICHLAND	
USGS 7 1/2 QUADRANGLE MAP NAME WHEELING, WV		



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



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

11/29/2024



REVISIONS:	COMPANY:		
OPERATOR'S	SHANNON FIELDS OHI		DATE: 09-26-2024
WELL #:	5H		DRAWN BY: TMF
DISTRICT:	COUNTY:	STATE:	SCALE: N/A
RICHLAND	OHIO	WV	DRAWING NO: ACE-2326
			WELL LOCATION PLAT

LATITUDE: 40°07'30"

SURFACE HOLE 9,200'

LATITUDE: 40°10'00"

BOTTOM HOLE 5,736'



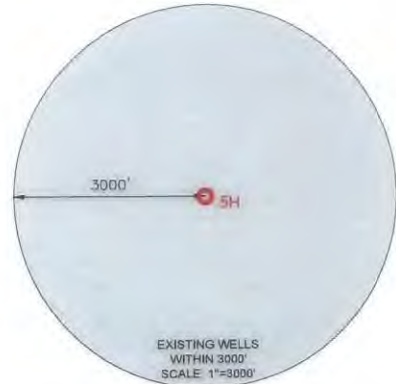
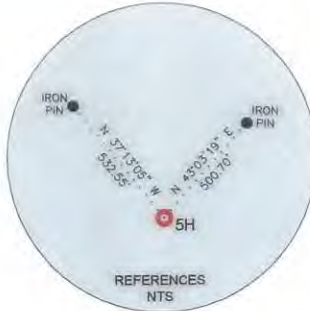
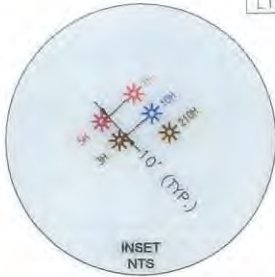
SURVEYOR/ENGINEER 1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,437,623.662 EASTING: 529,164.539
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,437,523.983 EASTING: 528,578.743
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,878.556 EASTING: 525,813.827

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 75°39'54" W	731.48'	SHL TO MONUMENT	STONE
L2	N 28°18'03" E	974.63'	SHL TO MONUMENT	CONCRETE MONUMENT

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 80°20'35" W	1,949.53'	2,362.87'	SHL TO LPL
L4	N 25°36'35" W	7,298.17'	7,298.17'	LPL TO AZL1
L5	N 23°50'01" W	177.46'	177.48'	AZL1 TO AZL2
L6	N 22°03'29" W	5,156.45'	5,156.45'	AZL2 TO AZL3
L7	N 20°09'27" W	189.99'	190.02'	AZL3 TO AZL4
L8	N 18°15'21" W	6,448.21'	6,448.21'	AZL4 TO AZL5
L9	N 17°11'04" W	107.23'	107.23'	AZL5 TO AZL6
L10	N 16°06'37" W	6,455.68'	6,455.68'	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 09-26-2024
P.S. 983



BOTTOM HOLE 4,664'

SURFACE HOLE 13,356'

LONGITUDE: 80°40'00"

LONGITUDE: 80°47'30"

STATE OF WEST VIRGINIA
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

MINIMUM DEGREE OF ACCURACY: 1/200

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

COMPANY: **SWN** Production Company, LLC

OPERATOR'S WELL #: **5H**

API WELL #: **47** STATE, **69** COUNTY, **DD374** PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1235.70

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 PERFORATE NEW FORMATION

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,073 TVD 32,647' 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

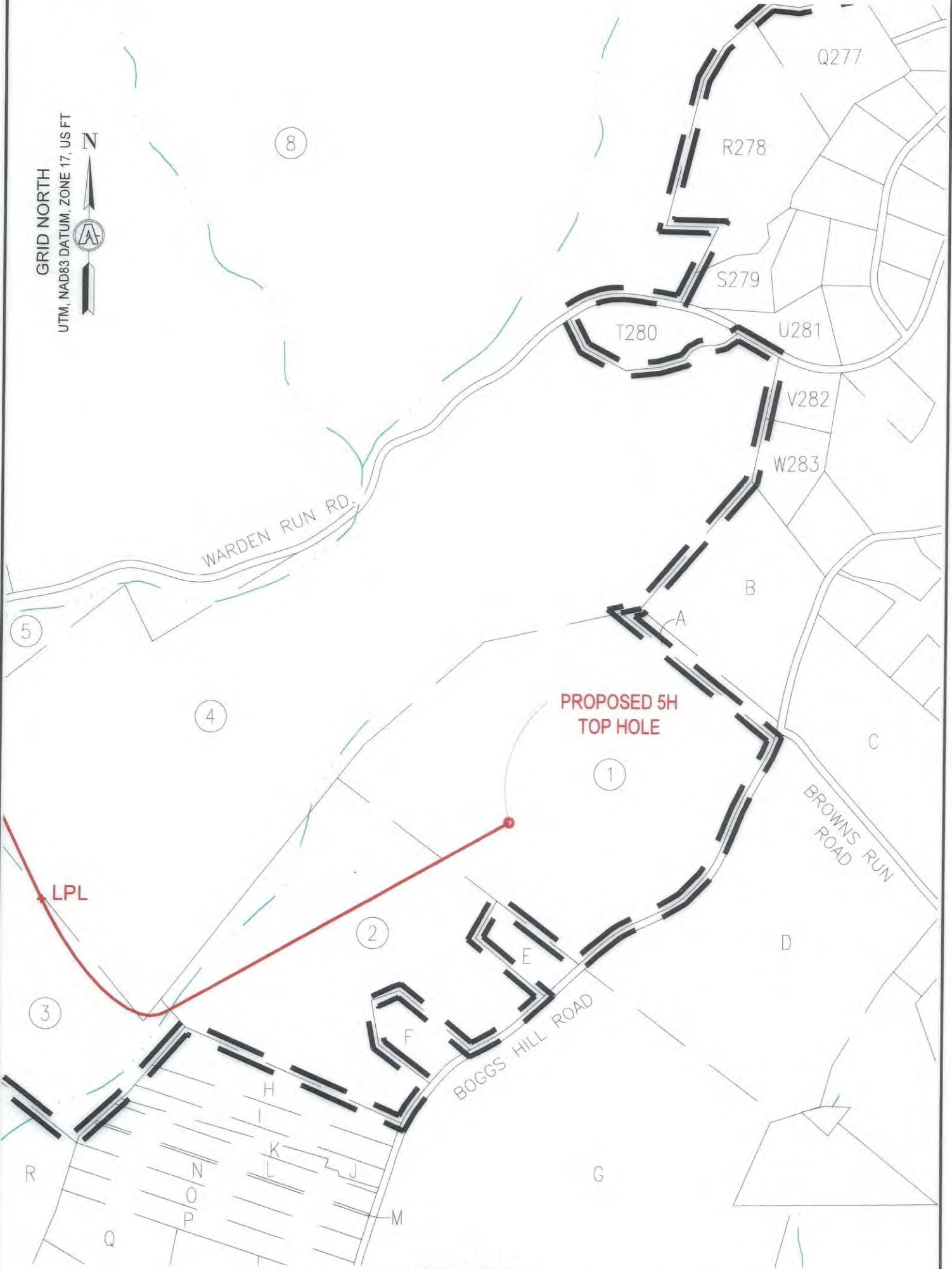
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	<ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD LPL* LANDING POINT LOCATION ⊙ EXISTING WATER WELL ⊙ EXISTING SPRING 	<ul style="list-style-type: none"> — SURVEYED BOUNDARY — DRILLING UNIT == LEASE BOUNDARY — PROPOSED PATH 	REVISIONS:	DATE: 09-26-2024
				DRAWN BY: TMF
				SCALE: 1" = 2000'
				DRAWING NO: ACE-2326
				WELL LOCATION PLAT 1



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

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



**PROPOSED 5H
TOP HOLE**

LPL

INSET "A"
SCALE: 1"=500'

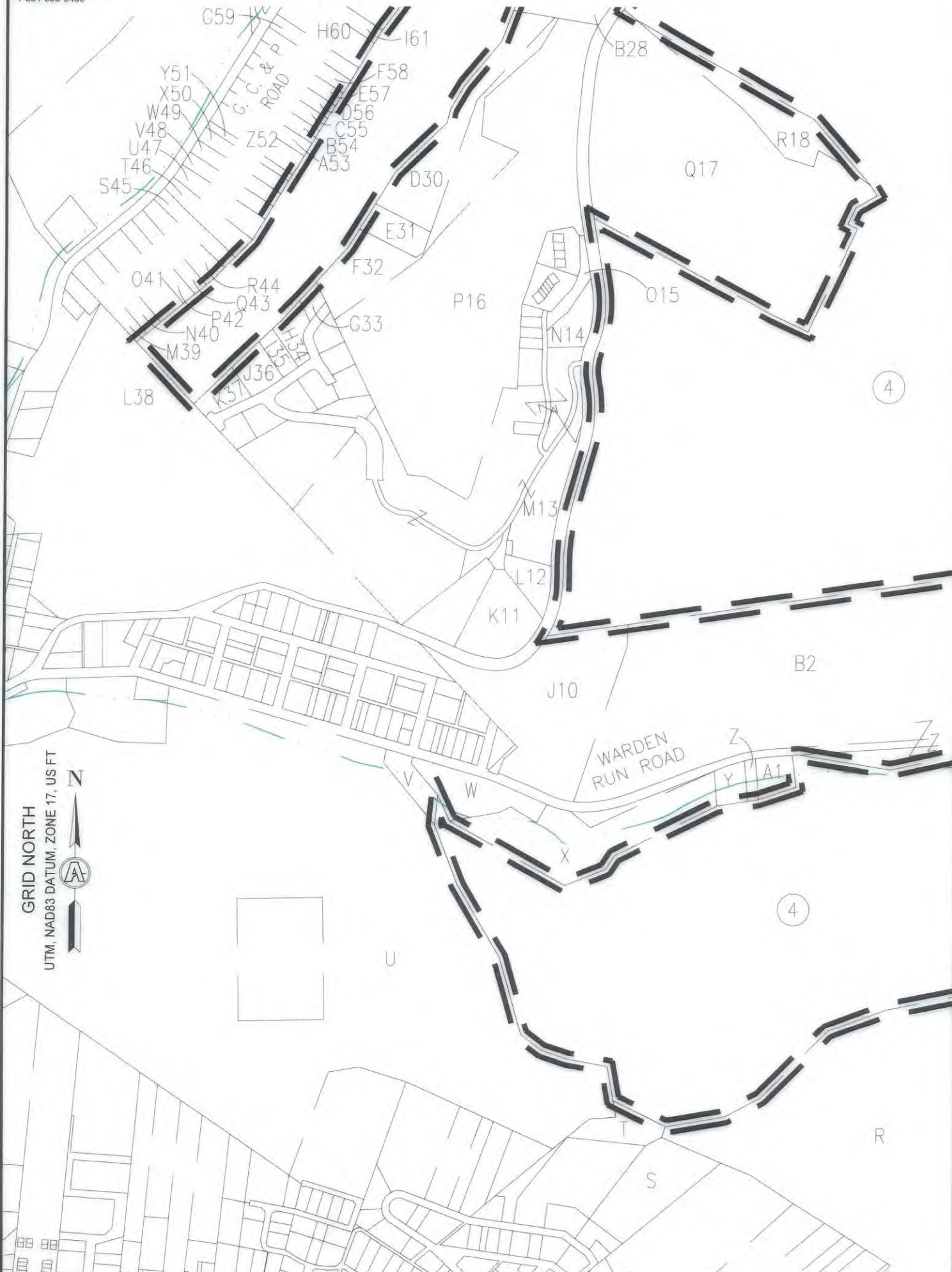
11/29/2024

REVISIONS:

COMPANY:			
OPERATOR'S		SHANNON FIELDS OHI	
WELL #:		5H	
DISTRICT:	COUNTY:	STATE:	DATE:
RICHLAND	OHIO	WV	09-26-2024
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

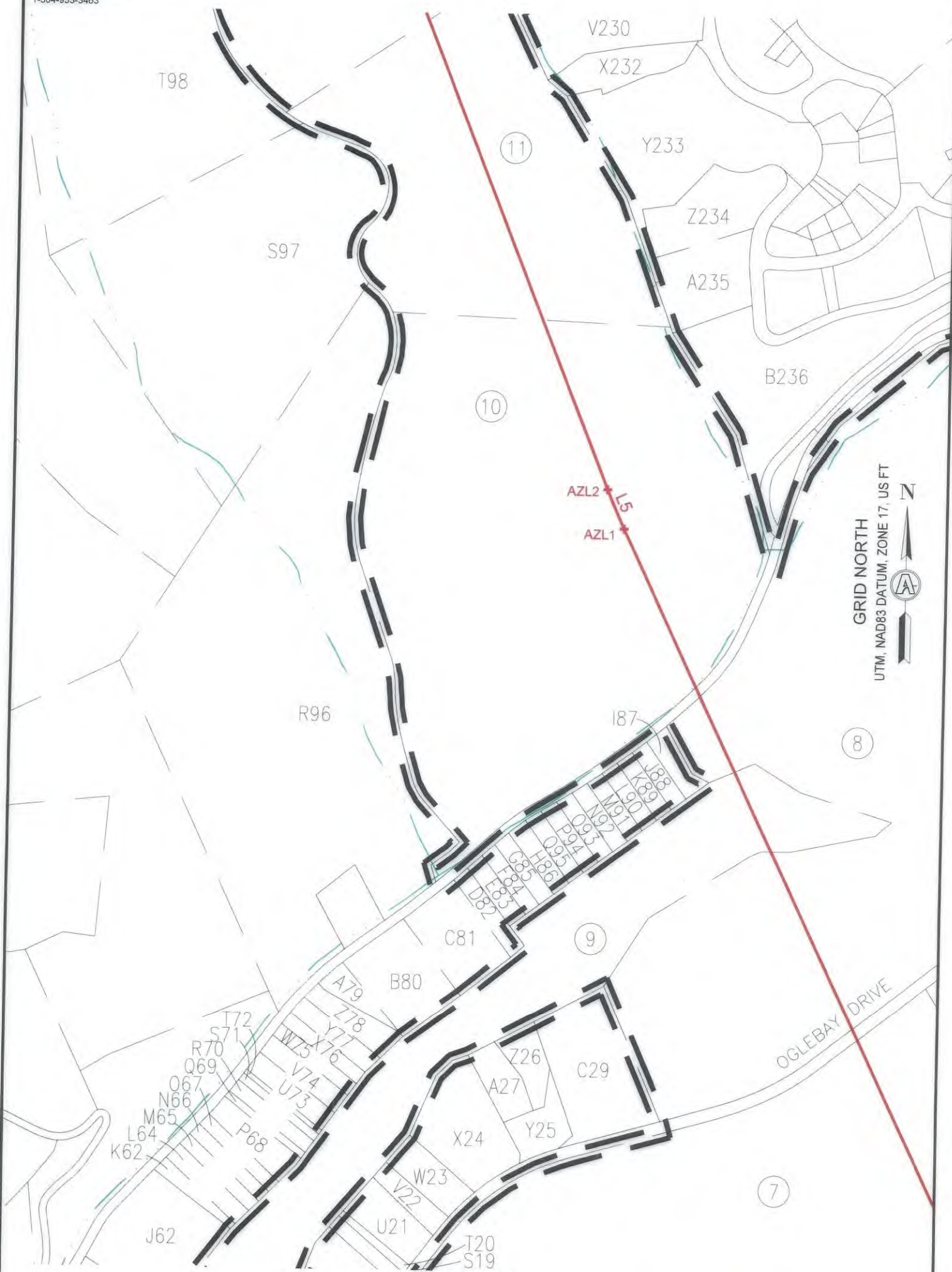


11/29/2024

REVISIONS:	COMPANY:			
	OPERATOR'S		SHANNON FIELDS OHI	
	WELL #:		5H	
	DISTRICT:	COUNTY:	STATE:	DATE: 09-26-2024
	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



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

INSET "C"
SCALE: 1"=500'

11/29/2024

REVISIONS:	COMPANY:			
	OPERATOR'S		SHANNON FIELDS OHI	
	WELL #:		5H	
	DISTRICT:	COUNTY:	STATE:	DATE: 09-26-2024
	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



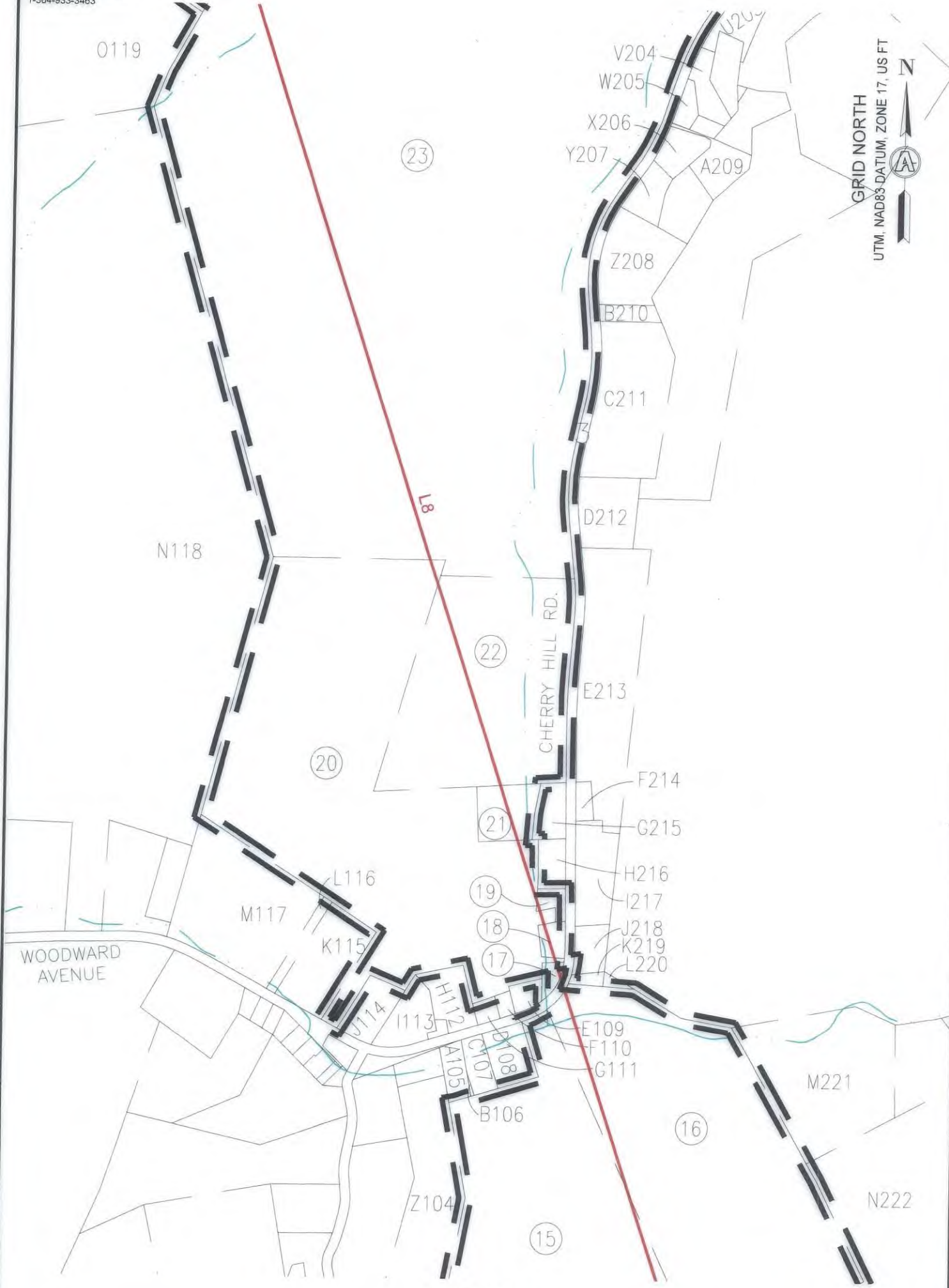
INSET "D"
SCALE: 1"=500'

11/29/2024

REVISIONS:	COMPANY:		 	
	OPERATOR'S		SHANNON FIELDS OHI	
	WELL #:		5H	
	DISTRICT:	COUNTY:	STATE:	DATE: 09-26-2024
	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



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

INSET "E"
 SCALE: 1"=500'

11/29/2024

REVISIONS:	COMPANY:			
	OPERATOR'S	SHANNON FIELDS OHI		
	WELL #:	5H		
	DISTRICT:	COUNTY:	STATE:	DATE: 09-26-2024
	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

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	PARK VIEW MEMORIAL GARDENS INC	4-R17-8
5	GACS LP	10-W27A-1
6	WHEELING PARK COMMISSION	4-R14-14.1
7	ELM HILL HOLDINGS LLC	4-R14-14
8	CITY OF WHEELING	4-R14-15
9	WHEELING PARK COMMISSION	10-W17A-1
10	POLACK EDWARD P	4-R14-95
11	HUPP SARA	4-R13-1.14
12	GRIMES THOMAS B TRUSTEE THE ARCHIE TODD HUPP IV	4-R13-1.15
13	SANTORINE LORA KAY & SANTORINE ADOLPH W JR	4-R14A-24
14	MULL ELLEN CLARICE ET AL	4-R10-44.1
15	NORTH FORK LANDFILL INC	4-R10-43.1
16	NORTH FORK LANDFILL INC C/O SUSAN SARKIS	4-R10-41
17	NORTH FORK LANDFILL INC	4-R10-38
18	ROBINSON RICHARD J	4-R10-37
19	NORTH FORK LANDFILL INC	4-R10-34.1
20	SARKIS SJ; ROHRIG RF; ROHRIG JR; ROHRIG RF TTEE	4-R10-19
21	MCGARRY CORENA ESTATE	4-R10-33
22	BREIDING JOSHUA D & SARAH N	4-R10-20
23	WARWOOD LAND CO LLC	4-R7-31
24	CLEARVIEW VOL FIRE DEPT INC	2-CV6-34.1
25	CRAIG TRENDEKICK	2-CV6-28
26	BOPP VICTOR V III & DIANN	2-CV6-28.3
27	JOSEPH BRADLEY R & JANETTE L	2-CV6-27.1
28	JOSEPH BRADLEY R & JANETTE L	2-CV6-27
29	JOSEPH BRADLEY R & JANETTE L	2-CV6-27.2
30	LAING MARGARET T	2-CV6-26
31	KIRKSEY MARK R & WEATHERSON NANCY (RES'V L/E)	2-CV6-25
32	BLUM RONALD & ROBIN S	2-CV6-8
33	ANDERSON COREY M & ANDERSON MARLENA J	2-CV6-9
34	ROBRECHT THOMAS A	2-CV7A-22
35	ROBRECHT THOMAS A	2-CV7A-23
36	SCHOOLCRAFT JOHN & CHRISTINA	2-CV7A-1
37	ALTMAN RICHARD T	4-R7-12.3
38	ROWND DENISE A & D T	4-R7-12.4
39	BIEGA FRANK P & C S	4-R7-12.6
40	BIEGA CONNIE SUE & FRANK PAUL	4-R7-12.9
41	BIEGA CONNIE SUE & FRANK PAUL	4-R7-12.2
42	BIEGA CONNIE SUE & FRANK PAUL	4-R7-12.10
43	ROWND DENISE & THOMPSON DANIEL, III	4-R7-12
44	CITY OF WHEELING	4-R7-18
45	DEAN LOMAN L & R Z	4-R7-21
46	EDGE BRUCE W	4-R7-23

11/29/2024

REVISIONS:	COMPANY:		
	<p style="text-align: center;">SWN Production Company, LLC</p>		
	OPERATOR'S		DATE: 09-26-2024
	WELL #:		DRAWN BY: TMF
DISTRICT:	COUNTY:	STATE:	SCALE: N/A
RICHLAND	OHIO	WV	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	LEWIS RUTH CARTER (DECD) IRREVOCABLE TRUST	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	WHEELING PARK COMMISSION	6-T1-2
S		35-NO-01DO-01D-
T	PHILLIPSON SANDIN E	6-T1-1
U	GC&P DEVELOPMENT LLC	10-W26-90
V	LOHR LINDA J	10-W26-89
W	GACS L P	10-W26-90.1
X	LLL LLC	4-R17-6
Y	SEABRIGHT JACK & DANIELLE	4-R17-6.4
Z	SEABRIGHT JACK & DANIELLE	4-R17-6.2
A1	SEABRIGHT JACK A & DANIELLE L	4-R17-6.3
B2	VINEYARD CHRISTIAN FELLOWSHIP & WHEELING TRUSTEES	10-W27-1
C3	FIRST CLASS REALTY LLC	10-W27-1.1
D4	FIRST CLASS REALTY LLC	10-W27-2.1
E5	FIRST CLASS REALTY LLC	10-W27-2.2
F6	FOREST BROOK CONDOS	10-W27-3
G7	CHERRY BROOK CONDOS	10-W27A-6
H8	FIGARETTI C; NICODEMUS R; & KENNEN R; TRUSTEES	10-W27-5
I9	KEY ANIMAL HOSPITAL INC	10-W27-2
J10	GILSON THOMAS A & STEPHANIE S	10-W26-50
K11	MCCARTHY T CARROLL JR	4-R16-1.5
L12	HEISELE BARBARA ELLEN	4-R16-1.4
M13	WEST RENTALS INC	4-R16-1
N14	SUNRISE VALLEY REALTY LLC	4-R16-1.24
O15	LINDSAY MARK E & JULIE K	4-R16-1.26
P16	ELM HILL HOLDINGS LLC	4-R14-14
Q17	NUTTING ROBERT M	4-R14-7
R18	ELM HILL LLC	4-R14-14.2
S19	TOWNSEND TAMMY J	4-R14-9.3
T20	MOREHOUSE SHAWN R	4-R14-9.2
U21	WEST RENTALS INC	4-R14-9
V22	ATKINSON RYAN J & ANN SHANLEY ATKINSON	4-R14-9.1
W23	CHURILLA PAULINE	4-R14-10
X24	WALTER DEBORAH & GERALD	4-R14-11
Y25	GREER PETER S	4-R14-12
Z26	GREER PETER S	4-R14-11.2
A27	WALTER DEBORAH & GERALD	4-R14-11.1
B28	WRIGHT DEBORAH D & JOHN E IV	4-R14-8
C29	SCHULTZ JEFFREY S	4-R14-13
D30	MICHALSKI JOHN & SUSAN	4-R16-1.23
E31	ROBERTS MARY L - TOD	4-R16-1.1
F32	JOHN M STASKY TRUST UNDER AGREEMENT	4-R16-1.28

*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/29/2024

REVISIONS:	COMPANY:				
	OPERATOR'S			DATE: 09-26-2024	
	WELL #:			DRAWN BY: TMF	
	DISTRICT:			SCALE: N/A	
	COUNTY:			DRAWING NO: ACE-2326	
	STATE:			WELL LOCATION PLAT	
	RICHLAND			OHIO	
				WV	



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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
G33	MURPHY ROBERT L & LINDA D	4-R16-1.13
H34	DEEM STEVEN C & NORMA J	4-R16-1.22
I35	KALISZ WILLIAM & CATHERINE A	4-R16-1.21
J36	MENDEL MARTHA J	4-R16-1.19
K37	SPERLAZZA RYAN J & ASHLEY M	4-R16-1.18
L38	BAUER ROBB V AND KATHY	10-W21-43
M39	BURGER RAYMOND P KAREN E	4-R13R-25
N40	BECK ISABELLE M	4-R13R-24
O41	WORKMAN KAITLYN MARIE & JACK ARMSTRONG FITCH	4-R13R-22
P42	FINSLEY HENRY M	4-R13R-21
Q43	KETTLER JARED E	4-R13R-20
R44	WEISENBORN STEPHANIE L	4-R13R-19
S45	ALTMAN SHARON LOUISE C/O WESBANCO TRUST DEPT	4-R13R-18
T46	DUPLAGA MICHAEL F III	4-R13R-17
U47	GROUX FRED E JR	4-R13R-16
V48	ETHEL ROSE SMITH - TOD	4-R13R-15
W49	HUGHES JOSHUA KELLER	4-R13R-14
X50	MANNING JAMES C	4-R13R-13
Y51	MANNING JAMES C	4-R13R-12
Z52	WEISENBORN DALE A & S L	4-R13R-11
A53	BALL MATTHEW	4-R13R-10
B54	BOWMAN ROBERT E & BARBARA A	4-R13R-9
C55	MANNING LAWRENCE R & LESLIE A	4-R13R-8
D56	PARÉE ANGELO JR & KELLY J	4-R13R-7
E57	MOSCA TRUST; LOUISE E MOSCA TRUSTEE	4-R13R-6
F58	MOSCA TRUST; ROBERT J OR LOUISE E MOSCA TRUSTEES	4-R13R-5
G59	TRABERT TERRI L ET AL	4-R13R-4
H60	BACHMANN PETER	4-R13R-3
I61	SCHUNK CHRISTOPHER & JESSICA	4-R13R-1
J62	JARVIS DOWNING & EMCH INC	4-R13R-27
K63	BICKERSTAFF ROBERT DALE JR	4-R13M-14
L64	HOLT NED S & CHRISTINE L	4-R13M-13
M65	HARTMANN SHARON J	4-R13M-12
N66	HARTMANN SHARON J	4-R13M-12.1
O67	COLUMBIA GAS TRANSMISSION CORP	4-R13M-11
P68	RITNER ROBERT L & TRACI L	4-R13M-10
Q69	MULL JUSTIN & TAMMEY (LC-BYRS) OLEKSIK CASSIE & D J(LC-SLRS)	4-R13M-8.1
R70	MULL JUSTIN & TAMMEY (LC-BYRS) OLEKSIK CASSIE & D J(LC-SLRS)	4-R13M-8
S71	MULL JUSTIN & TAMMEY (LC-BYRS) OLEKSIK CASSIE & D J(LC-SLRS)	4-R13M-7
T72	FLICK-MOOSS SUZANNE M & MOOSS CHRISTOPHER J	4-R13M-7.1
U73	FLICK-MOOSS SUZANNE M & MOOSS CHRISTOPHER J	4-R13M-6
V74	VOLUSIA VENTURES	4-R13M-4
W75	ARCHER BYRON F JR & M L	4-R13M-3
X76	MICKER DEBORAH A	4-R13M-2
Y77	WEST RENTALS INC	4-R13M-1
Z78	WEST RENTALS INC	4-R13M-1.1
A79	WEST RENTALS INC	4-R13M-1.2
B80	THURSTON BONNIE BOWMAN	4-R13M-1.3
C81	THURSTON BONNIE L	4-R14J-16
D82	CLARK MARY LADONNA	4-R14J-14
E83	CLARK MARY LADONNA	4-R14J-13
F84	TODD HOWARD R JR	4-R14J-12
G85	CHIAZZA PETER P & AUDREY D	4-R14J-11
H86	SYRYLO RONALD & M	4-R14J-10
I87	PELUCLETTE JOHN M & C L	4-R14J-1
J88	PANEPINTO MARK D & MINDY D	4-R14J-2
K89	DUVAL THOMAS & ALLAMONG MARY F	4-R14J-3
L90	BOUDREAU DENISE LYNN	4-R14J-4
M91	BLAZER ROBERT J	4-R14J-5
N92	TAYLOR JOANE L	4-R14J-8
O93	RICE STEVEN A AND JUDITH A	4-R14J-7
P94	BALTZ LEE E & J L	4-R14J-6

*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/29/2024

REVISIONS:	COMPANY:			
	OPERATOR'S		SHANNON FIELDS OHI	
	WELL #:		5H	
	DISTRICT:	COUNTY:	STATE:	DATE: 09-26-2024
	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	ZAVOLTA RONALD W	4-R14J-9
R96	POLACK E PHILLIPS M D	4-R13-15
S97	HUPP MOLLY H 1/2 INT & SCHEINHOLTZ DAVID J 1/2 INT	4-R13-1.13
T98	HUPP SARA STEPHENS	4-R13-1.17
U99	PRATHER JOHN R	4-R13-1.11
V100	PRATHER JOHN R	4-R10-47
W101	PRATHER JOHN R	4-R10-44
X102	PRATHER JOHN R	4-R10-44.2
Y103	MYERS WILBERT E III	4-R10-2
Z104	ASSARO ANTHONY L & S L	4-R10-43.3
A105	ASSARO ANTHONY L SR & SANDRA	4-R10-43.5
B106	ASSARO ANTHONY L SR & SANDRA	4-R10-43.9
C107	ROHRIG ROBERT F & KATHLEEN S	4-R10-43.6
D108	BENNETT CLIFFORD DWANE & BENNETT SANDRA V	4-R10-43.7
E109	JAQUAY TODD F	4-R10-19.1
F110	MOFFITT SYLVIA F	4-R10-10
G111		4-R10-19.2
H112	SARKIS SJ; ROHRIG RF; ROHRIG JR; ROHRIG RF TTEE	4-R10-10.1
I113	SARKIS SJ; ROHRIG RF; ROHRIG JR; ROHRIG RF TTEE	4-R10-11
J114	GILBERT DONALD E JR	4-R10-12
K115	H3 LLC	4-R10-13
L116	NORTH FORK LANDFILL INC	4-R10-14
M117	PERSINGER PAMELA M	4-R10-15
N118	NORTH FORK LANDFILL INC	4-R10-43
O119	MCGLAUGHLIN DENNIS & S	4-R7-30
P120	VILLAGE OF CLEARVIEW	2-CV6-34.2
Q121	SPARKS FAMILY IRREVOCABLE TRST; TRACY LYNN EBERHARD TRUSTEE	2-CV6-29.1
R122	REINACHER CHARLES J & CAROL S	2-CV6-4
S123	REINACHER CHARLES J & CAROL S	2-CV6-4.2
T124	CAMPBELL JAMES & MICHELLE	2-CV6-5.1
U125	CAMPBELL CLYDE D & J L	2-CV6-6
V126	CAMPBELL CLYDE D	2-CV6-7
W127	ROWND DENISE & DANIEL T III	4-R7-12.11
X128	CHUMNEY KEVIN K AND JANET L	4-R7Q-13
Y129	CUPP JOSEPH T AND AMY JO	4-R7L-107
Z130	CITY OF WHEELING	4-R7L-105
A131	CITY OF WHEELING	4-R7L-100
B132	MACFARLAND DARIN P & KL	4-R7L-99
C133	CITY OF WHEELING	4-R7G-25
D134	MACFARLAND DARIN P & KIMBERLY	4-R7G-24
E135	COMER JEAN A	4-R7G-23
F136	COMER JEAN A	4-R7G-20
G137	ROBINSON RICHARD J	4-R7G-19
H138	VELEGOL DAVID & CAROLYN	4-R7G-18
I139	GUZZI COREY A & BRITTANY N	4-R7-10
J140	GUZZI COREY A & BRITTANY N	4-R7-11
K141	BOURNE JOHN & LETHA	4-R7L-56.8
L142	WEST VIRGINIA STATE ROAD COMM	4-R7L-56.7
M143	MORGAN WILBUR W	4-R7L-56.6
N144	FAZZOLARI FRANK SAMUEL ESTATE	4-R7L-56.5
O145	WEST VIRGINIA STATE ROAD COMM	4-R7L-56.4
P146	FLUHARTY MICHAEL L & BRENDA K	4-R7L-56
Q147	WEST VIRGINIA STATE ROAD COMM	4-R7L-56.3
R148	WEST VIRGINIA STATE ROAD COMM	4-R7L-56.2
S149	DOUGHERTY GEORGE H & THELMA T	4-R7L-56.1
T150	JONES SHANNON M WILDS	4-R7-16.1
U151	DONOHEW WILLIAM SCOTT & LAURA	4-R4-2.4

*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/29/2024

REVISIONS:	COMPANY:			
	OPERATOR'S		SHANNON FIELDS OHI	
	WELL #:		5H	
	DISTRICT:	COUNTY:	STATE:	DATE: 09-26-2024
	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
V152	MCCLURE WM H & MARG A	4-R4-7
W153	ROTH FARMS, LLC	4-R7-24
X154	HARTFILE GARY L - TOD	4-R7-16
Y155	HARTFILE GARY L - TOD	4-R7-20
Z156	LOEW J W JR & ELSIE	4-R7-22
A157	HARTFILE GARY L -TOD	4-R7-15.1
B158	FLUHARTY MICHAEL AND BRENDA K	4-R7-17
C159	STEWART MARK E; GEIGER LEEANN	4-R7-28
D160	STEWART MARK E	4-R7-15.2
E161	BIEGA FRANKIE P & C S	4-R7-15
F162	FEDORKE AARON P & TIMOTHY J	2-CV4-3
G163	FEDORKE TIMOTHY JOSEPH	4-R7-37
H164	BIEGA FRANK & CONNIE	4-R7-27.2
I165	STOHR RONALD J & MARIE G- TOD	2-CV3-4.7
J166	ROWND DENISE A & ROWND DANIEL THOMPSON III	4-R7-14.1
K167	ROWND DENISE & DANIEL T III	4-R7-14
L168	UTTERMOHLEN JAMES VINCENT & ALINA DOLORES UTTERMOHLEN	2-CV7A-8
M169	JOHNSON TIMOTHY P & CRYSTAL J	2-CV7A-7
N170	RATCLIFFE LINDA L & RATCLIFFE RUSSELL B ESTATE	2-CV7A-6
O171	COMER JEAN A	2-CV7A-3
P172	SCHANE DOUGLAS W & CARRIE L	4-R7-12.8
Q173	SAYRE MICHELLE L & THORNGATE ERIC W	4-R7-12.7
R174	ROWND DANIEL III & DENISE	4-R7-12.14
S175	BENNETT JOHN & HOLLY	2-CV7A-33
T176	WHITE DAVID A	2-CV7A-24
U177	EUTSEY NICOLE R	2-CV7A-21
V178	ANGIUS JENNA	2-CV6-10
W179	BOLES ROBERT E III & TIFFANY M	2-CV6-10.1
X180	GIBSON ROBERT H & D L	2-CV7A-4
Y181	MCQUAID RYAN P & SAMANTHA M	2-CV7A-2
Z182	CONTRAGUERRO MICHAEL J JR & BRITTANY LEIGH CONTRAGUERRO	2-CV6-24
A183	STEWART GREGORY L & JODI A	2-CV6-23
B184	SAVAGE CHARLES J & RACHEL M	2-CV6-22
C185	DAGRAVA TIMOTHY & MEGAN	2-CV6-21
D186	HLAD DOUGLAS M & LISA ANN	2-CV6-20
E187	STEWART LOGAN G & ALICIA D	2-CV6-19
F188	SZALAY FRANCIS E & PL	2-CV3-13.1
G189	MYERS WILBERT E III & J S	2-CV3-13
H190	KLEIN JACK W JR & BRENDA J-TOD	2-CV4-22.1
I191	MURRAY BRYAN M AND JOAN C	2-CV4-22
J192	PAVLIK NICHOLAS D AND GLORIA K	2-CV4-21.2
K193	HESTIA LLC	4-R8-65.1
L194	GLENN VIEW LIMITED PARTNERSHIP	4-R8-65.4
M195	GLENN VIEW II LIMITED PARTNERSHIP	4-R8-68
N196	MEREDITH DONALD R II AND JULIE	4-R8-69.1
O197	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R8-70
P198	CASTILOW CHET	4-R7-34
Q199	STEVEN JOHNSON LEWIS ET AL	4-R7-33
R200	JOHNSON STEVEN LEWIS ET AL	4-R7-32
S201	SCHMALZ ANGELA	4-R7-36
T202	JOHNSON JOHN	4-R10-29
U203	JOHNSON JOHN LLOYD	4-R7-39
V204	KYLE CHAD J & E A	4-R10-22
W205	NEWLAND DARRELL L	4-R10-22.3
X206	BROST RICHARD	4-R10-24.1
Y207	WILSON CINDY L P & DANIEL-TOD	4-R10-26
Z208	ERNEST RICHARD H JR & A L	4-R10-27
A209	LASH MARTHA J	4-R10-24

*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/29/2024

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN *R-V+*
Production Company™

OPERATOR'S SHANNON FIELDS OHI

WELL #: 5H

DISTRICT:
RICHLAND

COUNTY:
OHIO

STATE:
WV

DATE: 09-26-2024

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
B210	BROOKS WILLIAM S C/O WESBANCO TRUST	4-R10-27.1
C211	WEST SHARON L	4-R10-28
D212	INTERSTATE DEV CORP C/O JACK FELTON CPA	4-R10-46
E213	MCCARDLE STANLEY M JR & M	4-R10-35
F214	OHIO COUNTY PUBLIC SERV DIST	4-R10-35.2
G215	MCGARRY CORENA ESTATE	4-R10-32
H216	BREIDING JOSHUA D	4-R10-34.2
I217	MCCARDLE STANLEY M JR & M	4-R10-36
J218	IAFRATE DAVID A	4-R10-39
K219	NORTH FORK LANDFILL INC C/O SUSAN SARKIS	4-R10-39.1
L220	NORTH FORK LANDFILL INC C/O SARKIS SUSAN	4-R10-41.1
M221	NORTH FORK LANDFILL INC C/O SUSAN SARKIS	4-R10-41
N222	GOLDEN CHRISTOPHER SCOTT & GOLDEN BRANDACE LYNN	4-R11-2.4
O223	DOYLE DANIEL T & LUCINDA E	4-R11-2.12
P224	LOWE JEREMY J & AMANDA L	4-R11-2.11
Q225	LOWE JEREMY J & AMANDA L	4-R11-2.6
R226	CUSACK JOHN L & TAMMIE L	4-R11-2.9
S227	COX C NOLAN	4-R14A-25
T228	DUFF FRANK X & DEBORAH M	4-R14A-69.1
U229	DUFF FRANK X & DEBORAH M	4-R14A-69
V230	DUFF FRANCIS X & D M	4-R14A-71
W231	DUFF DEBORAH M	4-R14A-88
X232	DUFF FRANCIS X & D M	4-R14A-53.2
Y233	EXLEY R BANFORD & T L	4-R14A-111
Z234	KIDD JOHN M	4-R14A-210
A235	ADAMS JAMES C & MELISSA S	4-R14E-1
B236	SUNSHINE STATE INV GROUP LLC	4-R14A-53
C237	SCHMITT JAMES A	4-R14-4.6
D238	SCHMITT JAMES A	4-R14-4.5
E239	LONG RUN PET HOSPITAL INC	4-R14-6
F240	JONES WILBUR S JR & JEFFERSON JOYCE P	4-R14-90
G241	SISTERS OF ST JOSEPH OF WHEELING INC	4-R11-21
H242	SISTERS OF ST JOSEPH OF WHG	4-R11-20
I243	PARKS SYSTEM TRUST FUND OF WHEELING	4-R11-21.3
J244	WHEELING PARK COMMISSION	4-R14-91
K245	WHEELING PARK COMMISSION	4-R14-20.4
L246	WHEELING PARK COMMISSION	4-R14-15.2
M247	HOSFELT WILLIAM J & PATRICIA HOSFELT ESTATES	10-W12D-2
N248	RANSOM CHARLES M & CRYSTAL G	10-W12D-1
O249	DIVINEY MARY F & TOMMY S JR	10-W14D-1
P250	SATTERFIELD DOROTHY & MARY KAY FAHEY	10-W14D-2
Q251	TUCKER ROBERT A & ROSEMARY	10-W14D-3
R252	MCKINLEY BETTY J	10-W14D-4
S253	WORKMAN WHITNEY SAMARA	10-W14D-5
T254	QUEEN THOMAS R & CYNTHIA A	10-W14D-6
U255	RIGGS DAVID V & KERRIE L	10-W14D-7
V256	ROBINSON TONY A	10-W14D-8
W257	BTCT RENTALS LLC	10-W14D-9
X258	KUHAR DOROTHY RES'V L/E KUHAR CHRISTINE	10-W14D-10
Y259	BASSI ALBERTO & THAIANE N LIMA	10-W14D-11
Z260	PEARCE CRAGO PAULA	10-W14D-12
A261	SMITH CODY A	10-W14D-13
B262	SAFCSAK KATHLEEN	10-W14D-14
C263	DOEPKEN DAVID W & CHRISTINE B	10-W14D-15
D264	BAUER JESSICA L & CHAD	10-W14D-16

HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/29/2024

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



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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
E265	NEUMAN CHARLES & B J WOTRING	10-W14D-17
F266	YOUNG MARK K & SAMANTHA	10-W14D-18
G267	PETRI DANIEL S & D	10-W14D-19
H268	WATSON STEVEN A & SHERI	10-W17D-2
I269	HANNA STEPHEN L & C H	10-W17D-3
J270	MILLER DAVID W & JUNKERSFELD PETER J	10-W17D-4
K271	MILLER DAVID W & JUNKERSFELD P	10-W17D-5
L272	FITZSIMMONS CLAYTON J	4-R14-46.13
M273	MCBANE DANIEL & CLARE FAMILY TRUST	10-W17D-6
N274	WHEELING PARK COMMISSION	10-W17D-7
O275	LAPP SAMUEL J II & HEATHER A	4-R14-50.1
P276	GOMPERS KATHLEEN M	4-R14-50.3
Q277	GOMPERS KATHLEEN M	4-R14-50.2
R278	FRIEND HARRIETTE E & FRIEND L EDWARD II	4-R14-51
S279	HITCHMAN HELEN G	4-R14-53
T280	BURGE EDWARD LEE JR	4-R17-8.1
U281	HITCHMAN HELEN G	4-R14-67
V282	KNOX TARA MICHELLE & TORY JAY	4-R17-59.1
W283	EDDY DONALD R & M M	4-R17-59.2
X284	FLUHARTY MICHAEL L	4-R7-6
Y285	WOLFE JAMES R ESTATE	4-R7-7
Z286	FLUHARTY MICHAEL L & BRENDA K	4-R7-8
A287	FLUHARTY MICHAEL L & BRENDA K	4-R7-9.1
B288	FLUHARTY MICHAEL & BRENDA	4-R7-9
C289	WICKHAM THOMAS OR LINDA	2-CV5-31
D290		2-CV5-30
E291	VILLAGE OF CLEARVIEW	2-CV5-30.1
F292	CLATTERBUCK CHAD J	2-CV6-34
G293	STEFANOW JOHN	2-CV6-33
H294	PARKER GAGE C	2-CV6-32
I295	THOMAS AMANDA & MARK S II	2-CV6-31
J296	HAWK ANGELA S & BART N WISIALOWSKI	2-CV6-30
K297	RUSSELL J F SR & W M (L/E) KUZNICK MARGARET CAROL	2-CV6-29

*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

11/29/2024

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

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

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

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

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

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

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

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


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

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

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

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

Well Operator: SWN Production Company, LLC

By: Tim Ledet 

Its: Staff Landman

EXHIBIT "A"
 Shannon Fields OHI 5H
 Ohio County, West Virginia

4706900376

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, L.L.C. SWN Production Company, LLC	17.00%	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, 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	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	4-R17-8	Cornerstone Family Services of West Virginia, LLC	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	814/586 884/121	0.00%
5	10-W27A-1	Anna M. Govindan, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	846/125 885/212	0.00%
6	4-R14-14.1	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%
7	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%
8	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%
9	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 Frances F. Verdery, a/k/a Frances W. Verdery, a/k/a Frances W. Fisher, a married woman Christie A. Fisher, a single woman Elizabeth B. Johnson, a married woman dealing in her sole and separate property Stuart & Jourdan Bacon Trust Agreement, dated October 22, 1991 Bates Family Trust, dated February 24, 2000 Victor H. Woolley & Kate Reilly Woolley, husband and wife Clark H. Woolley, a married man dealing in his sole and separate property Frances W. Altmaier, married woman dealing in her sole and separate property The City of Wheeling, a Municipal Corporation Cary Marshall Smith, a widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	15.00% 14.00% 14.00% 16.00% 18.00% 18.00% 18.00% 18.00% 18.00% 14.00% 18.00% 14.00% 18.00% 18.00%	848/194 885/77 850/699 885/77 851/375 885/77 941/52 942/443 979/342 979/355 979/117 988/281 995/531 989/196 1027/517 1029/234	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%

11/29/2024

EXHIBIT "A"
 Shannon Fields OHI 5H
 Ohio County, West Virginia

4706900376

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

		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%
10	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%
11	4-R13-1.14	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%
		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%
		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%
12	4-R13-1.15	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%

11/29/2024

EXHIBIT "A"
Shannon Fields OHI 5H
Ohio County, West Virginia

4706900376

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

		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%
/13	4-R14A-24	United Bank, a Virginia Corporation	SWN Production Company, LLC	15.00%	1019/700	0.00%
/14	4-R10-44.1	Ellen Clarice Mull, divorced and not remarried; Edward Albert Neitzel, Jr., divorced and not remarried; Mary Anne Anderson, divorced and not remarried	American Petroleum Partners Operating, LLC SWN Production Company, LLC	19.00%	947/786 980/572	0.00%
/15	4-R10-43.1	Royalty Owners	N/A	N/A	N/A	88.75%
		Stephen R. Magee, a single man	SWN Production Company, LLC	14.00%	1044/334	0.00%
		Timothy Ray Johnson and Pamela R. Johnson, husband and wife	SWN Production Company, LLC	14.00%	1042/286	0.00%
		Kenneth J. Magee and Dorothy Magee, husband and wife	SWN Production Company, LLC	14.00%	1044/130	0.00%
		Marilyn Vera Hasart, a widow	SWN Production Company, LLC	14.00%	1047/127	0.00%
		Susan Magee Rinebolt and Bruce Rinebolt, wife and husband	SWN Production Company, LLC	14.00%	1047/120	0.00%
		Skipper S. Magee and Janet E. Magee, husband and wife	SWN Production Company, LLC	14.00%	1047/174	0.00%
		Patricia A. West f/k/a Patricia A. Hamilton and Roy W. West, wife and husband	SWN Production Company, LLC	14.00%	1044/341	0.00%
		Donald Mark Magee and Emelia Magee, husband and wife	SWN Production Company, LLC	14.00%	1047/134	0.00%
		Timothy D. Magee and Ruth W. Magee, husband and wife	SWN Production Company, LLC	14.00%	1046/23	0.00%
		Michael R. Magee, a single man	SWN Production Company, LLC	14.00%	1047/142	0.00%
		E. Throop Geer, III, a single man	SWN Production Company, LLC	15.00%	1047/10	0.00%
		Christopher M. Geer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/418	0.00%
		Richard Lloyd Dewey, a single man	SWN Production Company, LLC	15.00%	1049/718	0.00%
		Frederick N. Dewey, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/554	0.00%
		Rial Rolfe, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/727	0.00%
		Cynthia D. Rolfe, a single woman	SWN Production Company, LLC	15.00%	1049/703	0.00%
		Julia Yvonne Cooper, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1052/72	0.00%
		Rebecca Irene Bennett, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1049/467	0.00%
		Ronald S. Vollmer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1047/205	0.00%
		Suzanne C. Geer, a single woman	SWN Production Company, LLC	15.00%	1047/111	0.00%
		Jacalyn L. McDonald, a married woman	SWN Production Company, LLC	15.00%	1044/121	0.00%
		Grant Sohm Elder, a single man	SWN Production Company, LLC	15.00%	1044/92	0.00%

11/29/2024

EXHIBIT "A"
Shannon Fields OHI 5H
Ohio County, West Virginia

4706900376

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

		Chauncey P. Dewey, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1055/181	0.00%
		Daniel William Cisney, a single man	SWN Production Company, LLC	18.00%	1055/173	0.00%
		Macy Baruch, a widow	SWN Production Company, LLC	15.00%	1061/291	0.00%
		Margaret Hicks, a widow	SWN Production Company, LLC	15.00%	1068/378	0.00%
		Ricky Rolfe, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1050/210	0.00%
		Sandra Mayberry, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1050/240	0.00%
		William F. Vollmer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1061/121	0.00%
		Sandra Lee Johnson Burreson Hartford, a widow	SWN Production Company, LLC	14.00%	1068/666	0.00%
16	4-R10-41	Royalty Owners	N/A	N/A	N/A	45.75%
		North Fork Landfill, Inc.	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.50%	954/190 980/572	0.00%
		Timothy D. Magee and Ruth W. Magee, husband and wife	SWN Production Company, LLC	14.00%	1038/229	0.00%
		Marilyn Vera Hasart, a widow	SWN Production Company, LLC	14.00%	1042/361	0.00%
		Mark Ross Magee and Leisa K. Magee, husband and wife	SWN Production Company, LLC	16.00%	1040/115	0.00%
		Susan Magee Rinebolt and Bruce Rinebolt, wife and husband	SWN Production Company, LLC	14.00%	1040/88	0.00%
		Stephen R. Magee, a single man	SWN Production Company, LLC	14.00%	1038/270	0.00%
		Skipper S. Magee and Janet E. Magee, husband and wife	SWN Production Company, LLC	14.00%	1038/254	0.00%
		Timothy Ray Johnson and Pamela R. Johnson, husband and wife	SWN Production Company, LLC	14.00%	1038/238	0.00%
		Patricia A. West f/k/a Patricia A. Hamilton and Roy W. West, wife and husband	SWN Production Company, LLC	14.00%	1040/1	0.00%
		Michael R. Magee, a single man	SWN Production Company, LLC	14.00%	1038/278	0.00%
		Kenneth J. Magee and Dorothy Magee, husband and wife	SWN Production Company, LLC	14.00%	1036/444	0.00%
		Donald Mark Magee and Emelia Matias husband and wife	SWN Production Company, LLC	14.00%	1040/15	0.00%
		Sandra Lee Johnson Burreson Hartford and Carl Hartford, wife and husband	SWN Production Company, LLC	14.00%	1038/286	0.00%
		E. Throop Geer, III, a single man	SWN Production Company, LLC	15.00%	1047/10	0.00%
		Christopher M. Geer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/418	0.00%
		Richard Lloyd Dewey, a single man	SWN Production Company, LLC	15.00%	1049/718	0.00%
		Frederick N. Dewey, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/554	0.00%
		Rial Rolfe, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/727	0.00%
		Cynthia D. Rolfe, a single woman	SWN Production Company, LLC	15.00%	1049/703	0.00%
		Julia Yvonne Cooper, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1052/72	0.00%
		Rebecca Irene Bennett, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1049/467	0.00%
		Ronald S. Vollmer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1047/205	0.00%
		Suzanne C. Geer, a single woman	SWN Production Company, LLC	15.00%	1047/111	0.00%
		Jacalyn L. McDonald, a married woman	SWN Production Company, LLC	15.00%	1044/121	0.00%

11/29/2024

EXHIBIT "A"
Shannon Fields OHI 5H
Ohio County, West Virginia

4706900376

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

		Grant Sohm Elder, a single man	SWN Production Company, LLC	15.00%	1044/92	0.00%
		Chauncey P. Dewey, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1055/181	0.00%
		Daniel William Cisney, a single man	SWN Production Company, LLC	18.00%	1055/173	0.00%
		Macy Baruch, a widow	SWN Production Company, LLC	15.00%	1061/291	0.00%
		Margaret Hicks, a widow	SWN Production Company, LLC	15.00%	1068/378	0.00%
		Ricky Rolfe, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1050/210	0.00%
		Sandra Mayberry, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1050/240	0.00%
		William F. Vollmer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1061/121	0.00%
/17	4-R10-38	Royalty Owners	N/A	N/A	N/A	100.00%
/18	4-R10-37	Richard J. Robinson, a single man	SWN Production Company, LLC	18.00%	934/619	0.00%
/19	4-R10-34.1	North Fork Landfill, Inc.	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.50%	954/190 980/572	0.00%
/20	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%
/21	4-R10-33	Royalty Owners	N/A	N/A	N/A	66.66%
		John Lloyd Johnson, a single man, by Sheila Hensley as Attorney-in-Fact	SWN Production Company, LLC	14.00%	1042/322	
/22	4-R10-20	Douglas W. Breiding and Rebecca J. Breiding, husband and wife	SWN Production Company, LLC	17.00%	995/46	0.00%
/23	4-R7-31	Warwood Land Co., L.L.C.	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	934/797 980/572	0.00%
/24	2-CV6-34.1	Clearview Volunteer Fire Department, Inc.	SWN Production Company, LLC	18.00%	1045/122	0.00%
/25	2-CV6-28	William Edward Boring, Jr., and Maureen Elizabeth Reinacher Boring, husband and wife	SWN Production Company, LLC	18.00%	1064/767	0.00%
/26	2-CV6-28.3	Victor V. Bopp, III and Diann Bopp, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.75%	945/419 980/572	0.00%
/27	2-CV6-27.1	Bradley R. Joseph and Janette L. Joseph, husband and wife	SWN Production Company, LLC	17.00%	1053/148	0.00%
/28	2-CV6-27	Bradley R. Joseph and Janette L. Joseph, husband and wife	SWN Production Company, LLC	17.00%	933/706	0.00%
/29	2-CV6-27.2	Bradley R. Joseph and Janette L. Joseph, husband and wife	SWN Production Company, LLC	17.00%	1053/148	0.00%
/30	2-CV6-26	Gresh W. Laing and Margaret T. Laing, husband and wife	SWN Production Company, LLC	18.00%	936/566	0.00%
/31	2-CV6-25	Nancy M. Weatherson, Life Estate and Mark R. Kirksey, Remainderman	SWN Production Company, LLC	18.00%	1057/764	0.00%

11/29/2024

Office of Oil and Gas
 OCT 24 2024

EXHIBIT "A"
 Shannon Fields OHI 5H
 Ohio County, West Virginia

4706900376

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

32	2-CV6-8	Ronald Blum and Robin S. Blum, husband and wife	SWN Production Company, LLC	18.00%	960/720	0.00%
33	2-CV6-9	Corey M. Anderson and Marlena J. Anderson, husband and wife	SWN Production Company, LLC	17.00%	1047/156	0.00%
34	2-CV7A-22	Thomas A. Robrecht, a widower	SWN Production Company, LLC	18.00%	1055/751	0.00%
35	2-CV7A-23	Thomas A. Robrecht, a widower	SWN Production Company, LLC	18.00%	1055/751	0.00%
36	2-CV7A-1	John D. Schoolcraft and Christina M. Schoolcraft, husband and wife	SWN Production Company, LLC	18.00%	1057/743	0.00%
37	4-R7-12.3	Richard T. Altman and Sara Ann Altman, husband and wife	SWN Production Company, LLC	15.00%	966/209	0.00%
38	4-R7-12.4	Daniel Thompson Rownd, III, a/k/a D. Thompson Rownd, III, and Denise Ann Rownd, husband and wife	SWN Production Company, LLC	18.00%	1042/293	0.00%
39	4-R7-12.6	Frank Biega and Connie Biega, husband and wife	SWN Production Company, LLC	18.00%	1055/659	0.00%
40	4-R7-12.9	Frank Biega and Connie Biega, husband and wife	SWN Production Company, LLC	18.00%	1055/659	0.00%
41	4-R7-12.2	Frank Biega and Connie Biega, husband and wife	SWN Production Company, LLC	18.00%	1055/659	0.00%
42	4-R7-12.10	Frank Biega and Connie Biega, husband and wife	SWN Production Company, LLC	18.00%	1055/659	0.00%
43	4-R7-12	Daniel Thompson Rownd, III, a/k/a D. Thompson Rownd, III, and Denise Ann Rownd, husband and wife	SWN Production Company, LLC	18.00%	1042/293	0.00%
44	4-R7-18	The City of Wheeling	SWN Production Company, LLC	18.00%	1038/524	0.00%
45	4-R7-21	Ruth J. Dean, a/k/a Ruth Z. Dean, by Kirby Ivan Dean, Attorney in Fact	SWN Production Company, LLC	16.00%	1029/195	0.00%
46	4-R7-23	Alice M. Edge, a/k/a Alice Mae Edge, widow	SWN Production Company, LLC	18.00%	976/502	0.00%
V126	2-CV6-7	Clyde D. Campbell, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	1055/682	0.00%
Q173	4-R7-12.7	Michelle L. Thorngate, f/k/a Michelle L. Sayre, and Eric W. Thorngate, wife and husband	SWN Production Company, LLC	18.00%	1063/87	0.00%
K219	4-R10-39.1	Royalty Owners	N/A	N/A	N/A	89.10%
		E. Throop Geer, III, a single man	SWN Production Company, LLC	15.00%	1047/10	0.00%
		Christopher M. Geer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/418	0.00%
		Richard Lloyd Dewey, a single man	SWN Production Company, LLC	15.00%	1049/718	0.00%
		Frederick N. Dewey, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/554	0.00%
		Rial Rolfe, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1049/727	0.00%
		Cynthia D. Rolfe, a single woman	SWN Production Company, LLC	15.00%	1049/703	0.00%
		Ronald S. Vollmer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1047/205	0.00%
		Suzanne C. Geer, a single woman	SWN Production Company, LLC	15.00%	1047/111	0.00%
		Jacalyn L. McDonald, a married woman	SWN Production Company, LLC	15.00%	1044/121	0.00%
		Grant Sohm Elder, a single man	SWN Production Company, LLC	15.00%	1044/92	0.00%
		Chauncey P. Dewey, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1055/181	0.00%
		Timothy D. Magee and Ruth W. Magee, husband and wife	SWN Production Company, LLC	14.00%	1065/512	0.00%
		Skipper S. Magee, a married man dealing in his sole and separate property	SWN Production Company, LLC	14.00%	1068/511	0.00%
		Timothy Ray Johnson and Pamela R. Johnson, husband and wife	SWN Production Company, LLC	14.00%	1065/600	0.00%
		Patricia A. West, f/k/a Patricia A. Hamilton and Roy W. West, wife and husband	SWN Production Company, LLC	14.00%	1068/504	0.00%
		Kenneth J. Magee and Dorothy Magee, husband and wife	SWN Production Company, LLC	14.00%	1071/718	0.00%

11/29/2024

EXHIBIT "A"
Shannon Fields OHI 5H
Ohio County, West Virginia

4706900376

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

Sandra Lee Johnson Burreson Hartford, a widow	SWN Production Company, LLC	14.00%	1068/666	0.00%
Macy Baruch, a widow	SWN Production Company, LLC	15.00%	1061/291	0.00%
Margaret Hicks, a widow	SWN Production Company, LLC	15.00%	1068/378	0.00%
Ricky Rolfe, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1050/210	0.00%
Sandra Mayberry, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	1050/240	0.00%
William F. Vollmer, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1061/121	0.00%

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.

EXHIBIT A
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 5H in Ohio County, West Virginia, drilling under Warden Run Road, Oglebay Drive, GC and P Road, Coyle Lane, Sams Run Rd., Cherry Hill Road, Clearview Ave., Willow Springs Rd. and Lilac Ln.

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 Warden Run Road, Oglebay Drive, GC and P Road, Coyle Lane, Sams Run Road, Cherry Hill Road, Clearview Avenue, Willow Springs Road and Lilac Lane. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,



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 5H

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>4,437,624</u> ✓		
UTM coordinate NAD83 Easting:	<u>529,165</u> ✓		
Watershed:	<u>Upper Ohio South</u> ✓		

Ohio
OCT 24 2024

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: 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 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

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

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

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

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 5H
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>529,164.539</u>
County:	<u>069-Ohio</u>		Northing:	<u>4,437,623.662</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		OOG OFFICE USE ONLY <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.

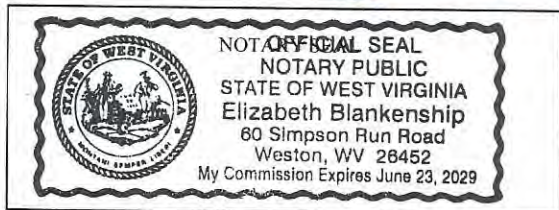
4706900376

Certification of Notice is hereby given:

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

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

Brittany Woody



Subscribed and sworn before me this 5 day of Sept 2024.
Elizabeth Blankenship Notary Public
 My Commission Expires 6/23/2029

Oil and Gas Privacy Notice:

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

00788074

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

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

Date of Notice: 10/23 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

OCT 24 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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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

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 57th St. SE
Charleston, WV 25304
(304) 926-0450

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

WW-6A
(8-13)

4706900376
API NO. 47-069
OPERATOR WELL NO. Shannon Fields OHI 5H
Well Pad Name: Shannon Fields OHI

Notice is hereby given by:

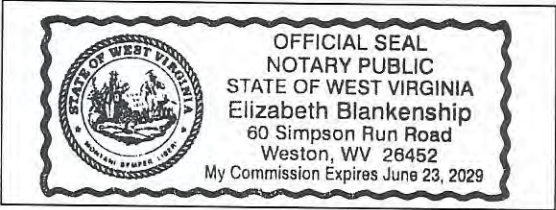
Well Operator: SWN Production Co., LLC
Telephone: 304-884-1610
Email: Brittany_Woody@swn.com

Brittany Woody

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

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 5 day of Sept. 2024.
Elizabeth Blankenship Notary Public
My Commission Expires 6/23/2029

OCT 24 2024

STATE OF WEST VIRGINIA **4706900376**
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 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: <u>SWN PRODUCTION COMPANY, LLC</u>	Address: <u>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.

11/29/2024

STATE OF WEST VIRGINIA 4706900376
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

ECT 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: <u>WV</u>	UTM NAD 83	Easting: <u>529,164.539</u>
County: <u>OHIO</u>		Northing: <u>4,437,623.662</u>
District: <u>RICHLAND</u>	Public Road Access: <u>Boggs Hill Road</u>	
Quadrangle: <u>WHEELING 7.5', WV</u>	Generally used farm name: <u>SHANNON FIELDS</u>	
Watershed: <u>UPPER OHIO SOUTH</u>		

This Notice Shall Include:

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

Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

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

STATE OF WEST VIRGINIA 4706900376
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:** 10/13

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

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

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 Easting: 529,164.539
County: OHIO UTM NAD 83 Northing: 4,437,623.662
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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: SWN Production Company, LLC Address: 1300 Fort Pierpont Dr., Suite 201
Telephone: 304-231-8329 Morgantown, WV 26508
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.



4706900376

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 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Shannon Fields Well Pad, Ohio County
Shannon Fields OHI 5H Well Site

OCT 24 2024

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

4706900376

Attachment VI Frac Additives

Product Name	Product Use	Chemical Name	CAS Number
HCL	Solvent	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
FSTI-CI-02	Corrosion Inhibitor	2-Butoxyethanol	111-76-2
		Ethylene glycol	107-21-1
		N,N-Dimethylformamide	68-12-2
		benzyl chloridequaternized	72480-70-7
		Cinnamaldehyde	104-55-2
		Isopropyl alcohol	67-63-0
		Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)- .omega.-hydroxy-	9016-45-9
		1-Decanol	112-30-1
		1-Octanol	111-87-5
		Triethyl phosphate	78-40-0
Ferriplex 80	Iron Control	Sodium Erythorbate	6381-77-7
Tolicide 4Frac	Biocide	Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8
		Quaternary ammonium compounds	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
Plexslick 930	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Oleic Acid Diethanolamide	93-83-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Ammonium Chloride	12125-02-9
		Sodium Chloride	7647-14-5
Plexaid 655NM	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
Plexslick V996	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Sodium Chloride	7647-14-5
Plexaid 655WG	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
		Glycerin	67-56-1
Clearal 270	Biocide	Glutaraldehyde	111-30-8
		Didecylidimethylammonium 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

4706900376

OPERATOR: SWN Production Co., LLC

WELL NO: Shannon Fields OHI 5H

PAD NAME: Shannon Fields OHI

REVIEWED BY: _____

SIGNATURE: *Bethany Moody*

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

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

OCT 22 2024

SHEET INDEX

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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



NO.	DATE	DESCRIPTION
1	3/9/2022	VWPE COMMENTS ADDED
2	3/1/2022	ADDENDUM #1

PREPARED FOR:
SWN
Southwestern Energy[®]



PREPARED BY:
ASCENT
Consulting & Engineering
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
TRIADDELPHIA
OHIO COUNTY, WV

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

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 5' 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	1,000
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)	EA	1,185
ROCK CHECK DAMS - PLACEMENT ONLY - (STONE BY SWN)	EA	5
GRASS LINED DITCH WITH EROSION CONTROL BLANKET	LF	400
8" COMPOST FILTER SOCK	LF	1,300
24" COMPOST FILTER SOCK	LF	3,575
24" HDPE CULVERT	LF	310
DEWATERING SUMP, 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



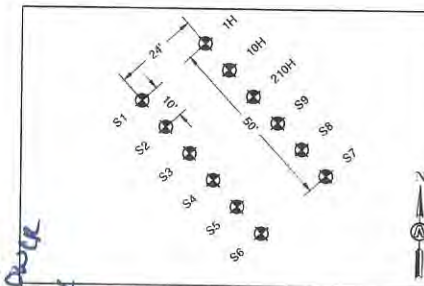
WHEELING QUADRANGLE REFERENCE MAP

LOCATION COORDINATES		
ACCESS ROAD ENTRANCE:		
LATITUDE: 40.08885 N	LONGITUDE: 80.654274 W	(DECIMAL DEGREES)
LATITUDE: 40°05'19.99" N	LONGITUDE: 80°39'15.39" W	(DEGREES-MINUTES-SECONDS)
NORTHING: 580806.7990	EASTING: 1645552.3116	(WV SP-83, FEET)
NORTHING: 4437679.933	EASTING: 529472.799	(UTM ZONE 17, METERS)
WELL PAD CENTER:		
LATITUDE: 40.088496 N	LONGITUDE: 80.657067 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	20.94

TOTAL DISTURBED AREA: 20.94 ACRES
ROAD DISTURBED AREA: 3.94 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



WELL HEAD LAYOUT
NOT TO SCALE

- 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-70 W/I-79 N TOWARD WASHINGTON, 30.1 MILES
 - 8) TAKE EXIT 5 FOR US-40 TOWARD VA-88 S/ELM GROVE/TRIADDELPHIA, 0.3 MILES
 - 9) KEEP RIGHT, MERGE ONTO US-40 E/NATIONAL ROAD, 171 FT
 - 10) MERGE ONTO US-40 E/NATIONAL ROAD, 0.6 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 SHORT,
ASCENT CONSULTING & ENGINEERING
2361 DAVISSON RUN ROAD
CLARKSBURG, WV 26301
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EMAIL: ERIC@ASCENTCONSULTINGENGINEERS.COM

PROJECT MANAGER:
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2361 DAVISSON RUN ROAD
CLARKSBURG, WV 26301
PHONE: (304) 933 - 3463
EMAIL: ZACH@ASCENTCONSULTINGENGINEERS.COM

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

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

*Site Survey
STRADDLE CROSS
9/18/2024*

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