



west virginia department of environmental protection

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

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

Friday, December 13, 2024  
WELL WORK PERMIT  
Horizontal 6A / Drilling Deeper

SWN PRODUCTION COMPANY, LLC  
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for CARL ROTTER OHI 201H  
47-069-00357-00-00

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

A handwritten signature in purple ink, appearing to read 'James A. Martin', is written over a faint circular stamp.

Operator's Well Number: CARL ROTTER OHI 201H  
Farm Name: CARL J & GRACE A ROTTER  
U.S. WELL NUMBER: 47-069-00357-00-00  
Horizontal 6A Drilling Deeper  
Date Issued: 12/13/2024

Promoting a healthy environment.

12/13/2024

# 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.

12/13/2024



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 3-Liberty 648-Valley Grove  
Operator ID County District Quadrangle

2) Operator's Well Number: Carl Rotter OHI 201H Well Pad Name: Carl Rotter OHI

3) Farm Name/Surface Owner: Carl J. & Grace A. Rotter Public Road Access: Rogers Road

4) Elevation, current ground: 1336' Elevation, proposed post-construction: 1336'

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- 6551', Target Base TVD- 6610', Anticipated Thickness- 59', Associated Pressure- 4297

8) Proposed Total Vertical Depth: 6584'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 16242'

11) Proposed Horizontal Leg Length: 9041.74'

12) Approximate Fresh Water Strata Depths: 585' / 622'

13) Method to Determine Fresh Water Depths: Salinity Profile with nearby water well (4706900171) WR-35

14) Approximate Saltwater Depths: 835' Salinity profile

15) Approximate Coal Seam Depths: 722'

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

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

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

RECEIVED  
Office of Oil and Gas  
NOV 13 2024  
WV Department of  
Environmental Protection

*Strader Gower*  
10/08/2024

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<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#	110'	110'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	767'	767'	891 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	2200'	2200'	815 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	16242'	16242'	Tail 2718sx/ 100' Inside Intermediate
Tubing							
Liners							

<b>TYPE</b>	<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"	0.380	2730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/5% Excess
Tubing							
Liners							

**PACKERS**

Kind:				RECEIVED Office of Oil and Gas  NOV 13 2024  WV Department of Environmental Protection
Sizes:				
Depths Set:				

*Strader Gower*  
10/08/2024



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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 14

22) Area to be disturbed for well pad only, less access road (acres): 9

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 bottom up and continuing until operator is satisfied with borehole conditions.

RECEIVED  
Office of Oil and Gas  
NOV 13 2024  
WV Department of  
Environmental Protection

\*Note: Attach additional sheets as needed.

CEMENT ADDITIVES						
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTier PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	<del>XXXXXXXXXX</del>	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	<del>XXXXXXXXXX</del>	INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
INTERMEDIATE	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L	<del>XXXXXXXXXX</del>	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	<del>XXXXXXXXXX</del>	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETARY
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
PRODUCTION	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	<del>XXXXXXXXXX</del>	55-IIW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	DO47	FP 28L	<del>XXXXXXXXXX</del>	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	<del>XXXXXXXXXX</del>	FL-66	0501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
	<del>XXXXXXXXXX</del>	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	<del>XXXXXXXXXX</del>	VISCOFI FIER/ANTI-SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3	<del>XXXXXXXXXX</del>	CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
D800	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE	8061-51-6	

RECEIVED  
Office of Oil and Gas

NOV 13 2024

WV Department of  
Environmental Protection

12/13/2024



**Southwestern Energy Company**

**Proposed Drilling Program**

Well: CARL ROTTER OHI 201  
 Field: PANHANDLE FIELD WET  
 County: OHIO  
 SHL (NAD83): 40.101549 Latitude -80.542425 Longitude  
 BHL (NAD83): 40.122256 Latitude -80.563357 Longitude  
 KB Elev: 1,362 ft MSL

Re-entry Rig: SDC 40  
 Prospect: Marcellus Shale  
 State: WV  
 KB: 26 ft AGL  
 GL Elev: 1,336 ft MSL



NO COAL VOID EXPECTED

PROD TOC @ 2,200' MD

TUBULAR DETAIL					
Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	110'
Surface/Coal	13.375	54.4 #	J-55	0'	767'
Intermediate	9.625	36.0 #	J-55	0'	2,200'
Production	5.5	20.0 #	P-110 HP	0'	16,242'

**CEMENT DETAIL**

	Sacks	Class	Density
Conductor	140	A	19.3
Surface	891	A	15.6
Intermediate	815	A	15.6
Production	2718	A	14.5-15.0



KOP at 6,103' MD

Freshwater Depth - 585' TVD  
 Coal Depth - 722' TVD  
 Saltwater Depth - 835' TVD  
 TVD - 6,584'  
 TMD - 16,242'

6,584' TVD Target Center

TD at 16,242' MD  
 6,584' TVD

LP at 7,173' MD

SHL Onondaga 6,609' TVD

Onondaga 6,609' TVD

7,173' to 16,242'  
 12.5-13.5 ppg

Created by: Sebastian Ziaja on 02/17/2023

RECEIVED  
 Office of Oil and Gas

NOV 13 2024

WV Department of  
 Environmental Protection

*Strader Gower*  
 10/08/2024

12/13/2024



4706900357

WW-9  
(4/16)

API Number 47 - 069 -  
Operator's Well No. Carl Rotter OHI 201H

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 Valley Grove

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

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: \_\_\_\_\_

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

Additives to be used in drilling medium? Attachment 3B

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

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

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

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

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

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

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

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

RECEIVED  
Office of Oil and Gas  
NOV 13 2024  
WV Department of  
Environmental Protection

Subscribed and sworn before me this 3 day of October, 20 24

Elizabeth Blankenship  
My commission expires 6/23/2029





SWN Production Co., LLC

4706900357

Proposed Revegetation Treatment: Acres Disturbed 14 Prevegetation pH

Lime as determined by pH test min.2 Tons/acre or to correct to pH 9

Fertilizer type 10-20-20

Fertilizer amount 600/500 lbs/acre

Mulch Hay/Straw Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Attachment 3C

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Strader Gower

Comments:

RECEIVED Office of Oil and Gas NOV 13 2024 WV Department of Environmental Protection

Title: Oil & Gas Inspector

Date: 10/08/2024

Field Reviewed? (X) Yes ( ) No

12/13/2024

**MARCELLUS WELL DRILLING PROCEDURES  
AND  
WELL SITE SAFETY PLAN**

4706900357



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

**API NO. 47-XXX-XXXXX  
WELL NAME: Carl Rotter OHI 201H  
Valley Grove QUAD  
Liberty DISTRICT  
OHIO COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody

*Brittany Woody*

Date: 10/1/2024

Title: Staff Regulatory Specialist

SWN Production Co., LLC

Approved by:

Name: Strader Gower

*Strader Gower*

Date: 10/8/2024

Title: Oil and Gas Inspector

Approved by:

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

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

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


RECEIVED  
Office of Oil and Gas  
NOV 13 2024  
WV Department of  
Environmental Protection

SWN PRODUCTION COMPANY, LLC – CONFIDENTIAL

12/13/2024






 1 in = 417 ft  
 0 0.025 0.05 0.1 0.15 0.2 Miles  
 Coordinate System: NAD 1983 UTM Zone 17N  
 Units: Meter

Office of Oil and Gas  
 NOV 13 2024  
 WV Department of Environmental Protection  
 Coordinates: 40.101498, -80.542329

S Spring  
 W Water Well  
 P Pond  
 1500' Buffer  
 Parcel

Water Purveyor Map  
 Well Pad: Carl Rotter  
 County: OH

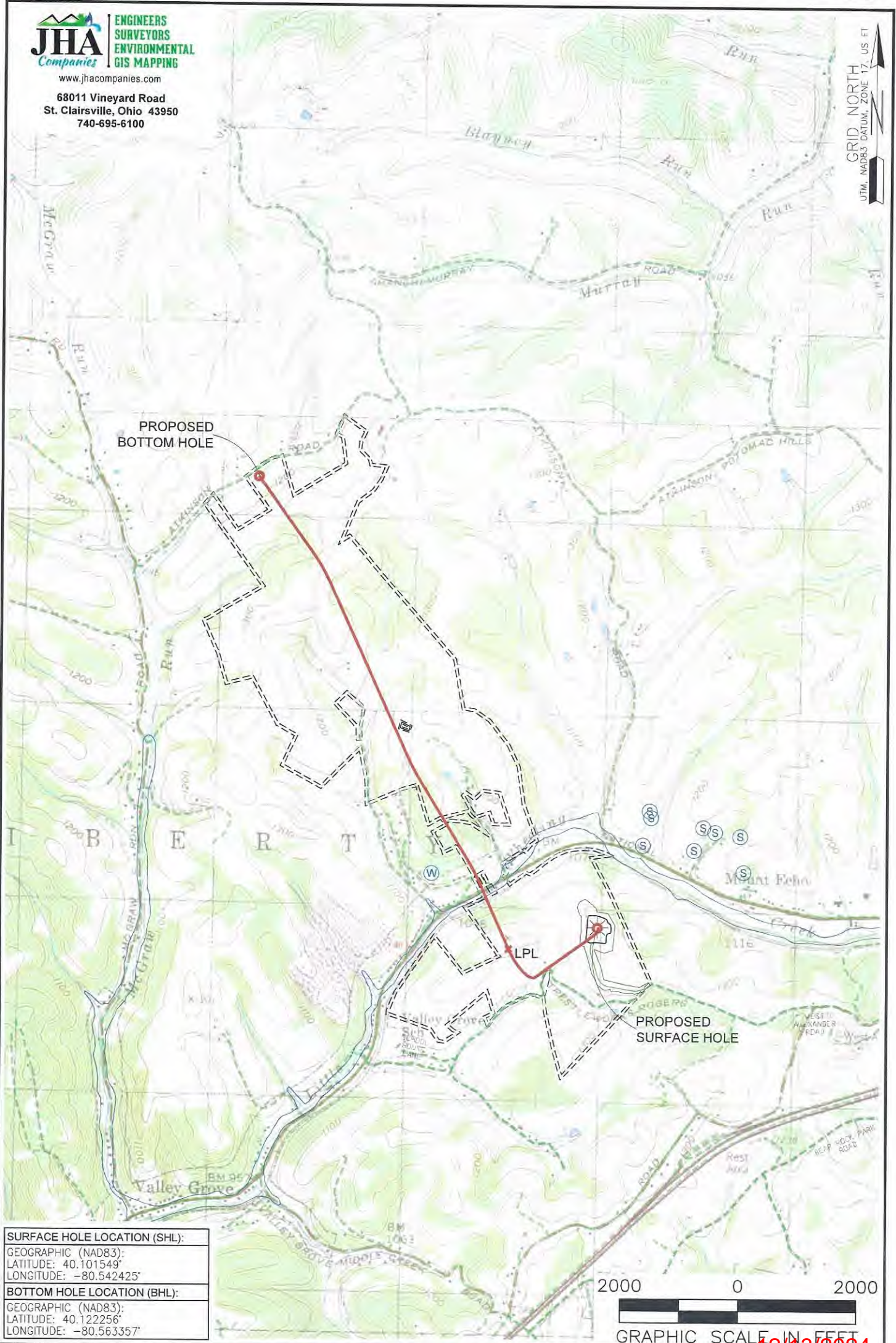
 *RZ-Vf*  
 Southwestern Energy  
 12/13/2024  
 Date: 9/10/2020 | Author: willish



4706900357

**JHA Companies**  
**ENGINEERS SURVEYORS ENVIRONMENTAL GIS MAPPING**  
 www.jhacompanies.com  
 68011 Vineyard Road  
 St. Clairsville, Ohio 43950  
 740-695-6100

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



<b>SURFACE HOLE LOCATION (SHL):</b>
GEOGRAPHIC (NAD83):
LATITUDE: 40.101549°
LONGITUDE: -80.542425°
<b>BOTTOM HOLE LOCATION (BHL):</b>
GEOGRAPHIC (NAD83):
LATITUDE: 40.122256°
LONGITUDE: -80.563357°

**NOTES ON SURVEY**

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

RECEIVED  
 Office of Oil and Gas  
 NOV 13 2024

**LEGEND:**

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

12/13/2024

<b>WELL OPERATOR:</b> SWN PRODUCTION COMPANY, LLC	<b>WV Department of Environmental Protection</b>	<b>WELL (FARM) NAME:</b> CARL ROTTER OHI	<b>WELL #</b> 201H	<b>SERIAL #</b> XXXX
<b>ADDRESS:</b> 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	<b>COUNTY:</b> OHIO	<b>CODE:</b> 069	<b>DISTRICT:</b> LIBERTY	<b>API #</b> 47-103-XXXX
<b>SURFACE OWNER:</b> CARL J. & GRACE A. ROTTER	<b>USGS 7 1/2 QUADRANGLE MAP NAME:</b> WILEYVILLE, WV			



LATITUDE: 40°07'30" SURFACE HOLE (2000' SCALE) 281'

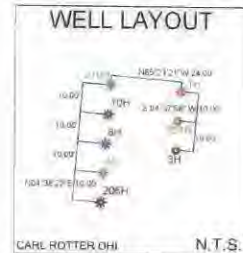
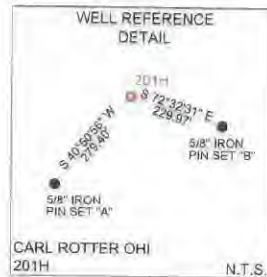
LATITUDE: 40°07'30" BOTTOM HOLE (2000' SCALE)

6134'

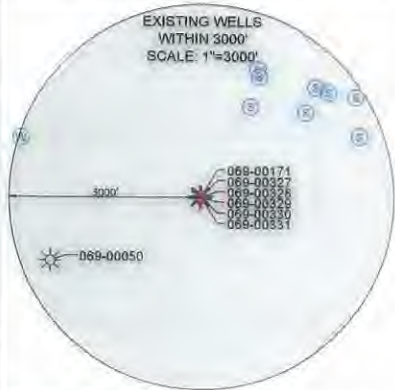
**JHA** ENGINEERS SURVEYORS ENVIRONMENTAL GIS MAPPING  
www.jhacompanies.com  
68011 Vineyard Road  
St. Clairsville, Ohio 43950  
740-695-6100

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

PROPOSED  
BOTTOM HOLE



LINE	BEARING	DISTANCE
L1	N37°27'10"E	1474.25'
L2	N31°51'46"E	1648.79'



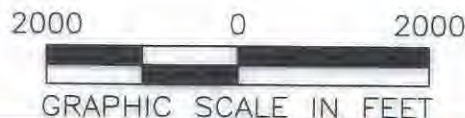
**NOTES ON SURVEY**

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

<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4439128.58 EASTING: 539000.62
<b>LANDING POINT LOCATION (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4439010.48 EASTING: 538544.66
<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4441417.91 EASTING: 537205.26

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

P.E. 19809



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

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

COMPANY: **SWN** Production Company, LLC

CARL ROTTER OHI  
OPERATOR'S WELL #: 201H  
API WELL #: 47 069 00357  
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION  DEEP GAS  LIQUID INJECTION STORAGE SHALLOW   
WATERSHED: UPPER OHIO SOUTH ELEVATION: 1336.3'  
DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: VALLEY GROVE, WV  
SURFACE OWNER: CARL J. & GRACE A. ROTTER ACREAGE: ±77.45  
OIL & GAS ROYALTY OWNER: CARL J. & GRACE A. ROTTER ACREAGE: ±77.45  
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: 6584' TVD 16242' 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

<b>LEGEND:</b> ● PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD LPL* LANDING POINT LOCATION ⊙ EXISTING WATER WELL ⊕ EXISTING SPRING — NATURAL WATERWAY — SURVEYED BOUNDARY == LEASE BOUNDARY — PROPOSED PATH — PUBLIC ROAD	<b>REVISIONS:</b>	DATE: 10-17-2024 API NO: 47-103-XXXX DRAWN BY: Z. WOOD SCALE: 1" = 2000' DRAWING NO: 2018-0153 WELL LOCATION PLAT
---	-------------------	--

LONGITUDE: 80°32'30" SURFACE HOLE (2000' SCALE)

LONGITUDE: 80°32'30" BOTTOM HOLE (2000' SCALE)

991'

8539'

12/13/2024





ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	GRIFFITH SHARON & WARREN	3-L11-60.1
B	SCHMIDT TODD R	3-L11-46.22
C	KLAGES LLOYD A JR	3-L11-46.18
D	WATSON GARY L & ROSE	3-L11-55.1
E	WEASE DUANE L & RHONDA L.	3-L11-55.2
F	ROTTER C J & GRACE A	3-L11-53
G	ROTTER C J & GRACE A	3-L11-52
H	WEASE DUANE L & RHONDA L	3-L11-58
I	TUNNEL RIDGE LLC	3-L11-55
J	DAVIS DANIEL R & DAVIS DONNA EVANS	3-L11-49.3
K	TUNNEL RIDGE LLC	3-L11-49.1
L	TUNNEL RIDGE LLC	3-L11-34.2
M	TUNNEL RIDGE LLC	3-L11-56
N	TUNNEL RIDGE LLC	3-L11-34.1
O	ROTTER CARL J & GRACE A	3-L11-65
P	TUNNEL RIDGE LLC	3-L11-72
Q	COOK ROBERT L & F A	8-VG2-56
R	DOBBS JUDY V & DONALD D	8-VG2-39
S	MILLER TIMOTHY W & K D	8-VG2-48
T	MILLER MORGAN	8-VG1-24
U	MILLER MORGAN	8-VG1-21
V	MILLER MORGAN	3-L11G-170
W	MILLER MORGAN	3-L11G-168
X	JACOBS JERRY L	3-L11G-166
Y	NORRIS RICKY LEE	3-L11G-165
Z	CAMPBELL ANTOINETTE	3-L11G-162
AA	CAMPBELL ANTOINETTE	3-L11G-159
AB	CAMPBELL ANTOINETTE	3-L11G-154
AC	KOSEM BRENDA & KEVIN	3-L11G-152
AD	CROFT FLORENCE	3-L11G-150
AE	ANDERSON CAROLYN L & PAUL	3-L11G-148
AF	ANDERSON PAUL B & C L	3-L11G-144
AG	CAMPBELL ANTOINETTE	3-L11G-142
AH	APACHE FRANK J JR - TOD	3-L11G-134
AI	CROFT HARY N OR CROFT FLORENCE G	3-L11G-188
AJ	CROFT HARY N OR CROFT FLORENCE G	3-L11G-190
AK	COCCO PAUL ALEXANDER & MARY LYNN	3-L11G-192
AL	APACHE FRANK J JR - TOD	3-L11G-130
AM	AMERICAN BONDING CO INC	3-L11G-126
AN	APACHE FRANK J JR - TOD	3-L11G-124
AO	APACHE FRANK J JR - TOD	3-L11G-104
AP	APACHE FRANK J JR - TOD	3-L11G-116
AQ	DREW ROBERT E & KRISTA M	3-L11G-94
AR	NORMAN MARK	3-L11G-21
AS	KIGER BRUCE J - TOD	3-L11-25
AT	GROUX EDWARD G & JOAN C-LIFE GROUX EDWARD G JR	3-L11-26.5
AU	GROUX EDWARD G & JOAN C-LIFE GROUX EDWARD G JR	3-L11-26.4
AV	CARR THOMAS M & JACKIE R	3-L11-26.1
AW	COYNE BRIAN J & REBBECA L	3-L8-32.4

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	ROTTER CARL J & GRACE A (S/R)	3-L11-54
2	DAVIS DONNA E & DANIEL R	3-L11-50
3	DAVIS DONNA EVANS & DANIEL R	3-L11-49.2
4	DAVIS DONNA E & WEASE RHONDA	3-L-11-49
5	ROTTER CARL J & GRACE A (S/R)	3-L-11-64
6	NOLAN JOHN A JR	3-L11-61
7	TUNNEL RIDGE LLC	3-L11-71
8	SHELBY MARIE OPIC	8-VG2-55
9	WV STATE DEP OF HIGHWAYS	US ROUTE 40
10	CULLEY ESTHER BELLE	8-VG1-28
11	MITSCH JOS E & C T	8-VG1-26
12	MITSCH JOS E & C T	3-L11G-257
13	KNIERIM HENRY E & N J	3-L11G-172
14	ZINK CHARLES H	3-L11G-182
15	CROFT FLORENCE	3-L11G-196
16	KNIERIM HENRY E & N J	3-L11G-204
17	CROFT FLORENCE	3-L11G-206
18	CROFT FLORENCE	3-L11G-208
19	CROFT FLORENCE	3-L11G-210
20	KOSEM BRENDA A & KEVIN F	3-L11G-211
21	CROFT FLORENCE	3-L11G-222
22	CROFT FLORENCE	3-L11G-223
23	APACHE FRANK J JR -TOD	3-L11G-100
24	GROUX EDWARD & JOAN	3-L11G-99
25	GROUX EDWARD G JR & GROUX JEFFREY L	3-L11C-35
26	GROUX EDWARD G JR & GROUX JEFFREY L	3-L11-27
27	GROUX EDWARD G & LYDIA C -LIFE GROUX EDWARD G JR	3-L11-26
28	KNIGHT CRAIG C & KATHLEEN	3-L8-33.8
29	HOWELL LAND GROUP LLC	3-L8-33.7
30	DEDO CHARLES JR & JEANNE S	3-L8-33.12

REVISIONS: 47 069 60 357	COMPANY: <b>SWN</b> Production Company, LLC		DATE: 10-17-2024	
	OPERATOR'S: CARL ROTTER OHI		API NO: 47-103-XXXX	
	WELL #: 201H		DRAWN BY: Z. WOOD	
DISTRICT: LIBERTY	COUNTY: OHIO	STATE: WV	SCALE: N/A	
			DRAWING NO: 2018-0153	
			WELL LOCATION PLAT	

12/13/2024



ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AX	ASHTON ROBERT A & MARY	3-L8-32.2
AY	KNOLLINGER SCOTT W	3-L8-13.3
AZ	HOWELL LAND GROUP LLC	3-L8-33.13
BA	HOWELL LAND GROUP LLC	3-L8-13
BB	SUBASIC JOSEPH THOMAS & SUBASIC ASHLEY LYNNE	3-L8-13.5
BC	TEMPLIN SEAN A	3-L8-13.6
BD	FRIO JAMES W	3-L8-12
BE	SHILLING C MURRAY	3-L8-33.10
BF	PATTERSON TERRY L	3-L8-33.6
BG	PATTERSON TERRY L	3-L8-33.2
BH	RAILING BILL	3-L8-12.7
BI	SHILLING C MURRAY	3-L8-33.4
BJ	SHILLING ROBERT A SR	3-L8-33
BK	CREWS MICAH J & TERRA J	3-L8-33.11
BL	CREWS MICAH J & TERRA J	3-L8-33.3
BM	KNIGHT CRAIG C & KATHLEEN	3-L8-33.5
BN	JONES ROBERT C	3-L8-11.1
BO	GROUX EDWARD G & JOAN C -LIFE GROUX EDWARD G JR	3-L11-26.6
BP	DAVIS DAVID E JR	3-L8-35
BQ	WINTERS FAMILY FARM LLC	3-L11-28
BR	VANCE DONNA ELAINE	3-L11-32.1
BS	VANCE DONNA ELAINE	3-L11-32.2
BT	HOLLOWAY STRICKLAND III	3-L11-32
BU	TUNNEL RIDGE LLC	3-L11-33
BV	CURRENCE BRENT "WOODY"	8-VG2-54
BW	NOLAN JOHN A JR	3-L11-66
BX	NOLAN JOHN A JR	3-L11-63
BY	TUNNEL RIDGE LLC	3-L12-32
BZ	GROUX BRIAN D & COURTNEY J	3-L11-26.7
CA	STILES SIDNEY LEE	3-L11C-34
CB	MITSCH JOS E & C T	3-L11G-256
CC	CHIPKAR EDWARD B	3-L11-27.1
CD	GROUX EDWARD G III & GROUX ARIEL D	3-L11-27.3
CE	PRITT JESS W & VIRGINIA & C/O PRITT PHYLLIS	8-VG1-25

12/13/2024

REVISIONS: 4706900357

COMPANY:

**SWN**  
Production Company, LLC

**SWN** *R-V+*  
Production Company™

OPERATOR'S

CARL ROTTER OHI

WELL #:

201H

DISTRICT:  
LIBERTY

COUNTY:  
OHIO

STATE:  
WV

DATE: 10-17-2024

API NO: 47-103-XXXX

DRAWN BY: Z. WOOD

SCALE: N/A

DRAWING NO: 2018-0153

WELL LOCATION PLAT

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

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

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

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

See Exhibit "A"

\*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

RECEIVED  
Office of Oil and Gas  
NOV 13 2024

WV Department of  
Environmental Protection

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





4706900357

**EXHIBIT "A"**  
**Carl Rotter OHI 201H**  
**Ohio County, West Virginia**

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

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
1)	03-0L11-0054-0000	Carl J. Rotter and Grace A. Rotter, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	791 16 885 248	0.00%
2)	03-0L11-0050-0000	Rhonda Evans Wease, a married woman dealing in her sole and separate property  Donna Evans Davis, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC  Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%  12.50%	792 557 885 260  792 562 885 260	0.00%  0.00%
3)	03-0L11-0049-0002	Rhonda Evans Wease, a married woman dealing in her sole and separate property  Donna Evans Davis, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC  Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%  12.50%	792 557 885 260  792 562 885 260	0.00%  0.00%
4)	03-0L11-0049-0000	Rhonda Evans Wease, a married woman dealing in her sole and separate property  Donna Evans Davis, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC  Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%  12.50%	792 557 885 260  792 562 885 260	0.00%  0.00%
5)	03-0L11-0064-0000	Carl J. Rotter and Grace A. Rotter, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	791 16 885 248	0.00%
6)	03-0L11-0061-0000	John A. Nolan, Jr.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	837 743 885 728	0.00%
7)	03-0L11-0071-0000	Tunnel Ridge, LLC	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.75%	865 672 883 778	0.00%
8)	08-0VG2-0055-0000	John L. Geary, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	839 587 885 164	0.00%
9)	US Route 40	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	830 11 883 611	0.00%
10)	08-0VG1-0028-0000	Esther Belle Colvin aka Esther Belle Culley, a widow  Metta Jean Ruggle, a widow, by and through her Attorney-in-Fact Carol Ruggle Parsley	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC  Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%  18.00%	852 441 885 164  853 790 885 164	0.00%  0.00%
11)	08-0VG1-0026-0000	Joseph E. Mitsch and Charles T. Mitsch, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	835 708 885 704	0.00%
12)	03-L11G-0257-0000	Joseph E. Mitsch and Charles T. Mitsch, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	835 708 885 704	0.00%
13)	03-L11G-0172-0000	Timothy Knierim, divorced  Susan Hanuschock, a married woman dealing herein with her separate property	SWN Production Company, LLC  SWN Production Company, LLC	18.00%  18.00%	935 713  935 728	0.00%  0.00%
14)	03-L11G-0182-0000	Charles Foster, a married man dealing in his sole and separate property  Dale Foster, a married man dealing in his sole and separate property  Dawn Joseph, a/k/a Dawn Devanna, a married woman dealing in her sole and separate property  Kimberly Wilcox, a married woman dealing in her sole and separate property	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  Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%  18.00%  18.00%	845 191 885 764  845 209 885 764  845 214 885 764  845 219 885 764	0.00%  0.00%  0.00%
15)	03-L11G-0196-0000	Harry Nelson Croft and Florence G. Croft, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	810 281 884 1	0.00%
16)	03-L11G-0204-0000	Timothy Knierim, divorced  Susan Hanuschock, a married woman dealing herein with her separate property	SWN Production Company, LLC  SWN Production Company, LLC	18.00%  18.00%	935 718  935 708	0.00%  0.00%
17)	03-L11G-0206-0000	Harry Nelson Croft and Florence G. Croft, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	810 281 884 1	0.00%
18)	03-L11G-0208-0000	Harry Nelson Croft and Florence G. Croft, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	810 281 884 1	0.00%
19)	03-L11G-0210-0000	Harry Nelson Croft and Florence G. Croft, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	810 281 884 1	0.00%
20)	03-L11G-0211-0000	Kevin Kosem & Brenda Kosem, husband and wife	SWN Production Company, LLC	18.00%	1017 375	0.00%
21)	03-L11G-0222-0000	Harry Nelson Croft and Florence G. Croft, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	810 281 884 1	0.00%
22)	03-L11G-0223-0000	Harry Nelson Croft and Florence G. Croft, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	810 281 884 1	0.00%
23)	03-L11G-0100-0000	Thomas H. Hoffman, Jr.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	812 78 883 551	0.00%
24)	03-L11G-0099-0000	Edward G. Groux, Jr., a single man and Jeffrey L. Groux, a married man	Chevron U.S.A., Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	833 685 858 359 883 623	0.00%
25)	03-L11G-0035-0000	Edward G. Groux, Jr., a single man and Jeffrey L. Groux, a married man	Chevron U.S.A., Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	833 685 858 359 883 623	0.00%
26)	03-0L11-0027-0000	Edward G. Groux, Jr., a single man and Jeffrey L. Groux, a married man	Chevron U.S.A., Inc.	15.00%	833 685	0.00%

RECEIVED  
Office of Oil and Gas  
NOV 13 2024

WV Department of Environmental Protection

12/13/2024



**EXHIBIT "A"**

**Carl Rotter OHI 201H  
Ohio County, West Virginia**

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

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
			Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		858 359 883 623	
27)	03-0L11-0026-0000	J & F Chambers Holdings LLC	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	825 411 883 260	0.00%
28)	03-00L8-0033-0008	Shirley A. Knight, a widow and Craig C. Knight and Kathleen Knight, his wife	NPAR, LLC Chevron U.S.A., Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	814 347 827 269 858 359 883 611	0.00%
29)	03-00L8-0033-0007	Jeffrey H. Knollinger, a married man and Scott W. Knollinger, a married man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	839 100 885 716	0.00%
30)	03-00L8-0033-0012	Charles Dedo, Jr. and Jeanne S. Dedo	NPAR, LLC Chevron U.S.A., Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	815 450 827 284 858 359 883 611	0.00%
<b>END OF EXHIBIT "A"</b>						

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.

RECEIVED  
Office of Oil and Gas

NOV 13 2024

WV Department of  
Environmental Protection



October 21, 2024

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

Re: SWN's proposed New Well: Carl Rotter OHI 201H in Ohio County, West Virginia, drilling under National Road and Realtree Road

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 National Road and Realtree Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,



Tim Ledet  
Staff Landman  
SWN Production Company, LLC

RECEIVED  
Office of Oil and Gas  
NOV 13 2024  
WV Department of  
Environmental Protection





**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:** October 4, 2024 & October 11, 2024

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

**Applicant:** SWN Production Company, LLC **Well Number:** Carl Rotter OHI 201H

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

**Business Conducted:** Natural gas production.

**Location –**

State:	<u>West Virginia</u>	County:	<u>Ohio</u>
District:	<u>Liberty</u>	Quadrangle:	<u>Valley Grove</u>
UTM Coordinate NAD83 Northing:	<u>4,439,129</u>		
UTM coordinate NAD83 Easting:	<u>539,001</u>		
Watershed:	<u>Upper Ohio South</u>		

RECEIVED  
Office of Oil and Gas  
NOV 13 2024

**Coordinate Conversion:**

To convert the coordinates above into longitude and latitude, visit: [http://tagis.dep.wv.gov/convert/1lutm\\_conus.php](http://tagis.dep.wv.gov/convert/1lutm_conus.php)

WV Department of  
Environmental Protection

**Electronic notification:**

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

**Reviewing Applications:**

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

**Submitting Comments:**

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

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

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



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

Date of Notice Certification: 11/17

API No. 47- 069  
Operator's Well No. Carl Rotter OHI 201H  
Well Pad Name: Carl Rotter 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>539000.62</u>
County:	<u>069-Ohio</u>		Northing:	<u>4439128.58</u>
District:	<u>Liberty</u>	Public Road Access:	<u>Rogers Road</u>	
Quadrangle:	<u>Valley Grove</u>	Generally used farm name:	<u>Carl Rotter</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.

<p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><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</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
---	---

RECEIVED  
Office of Oil and Gas  
NOV 13 2024  
WV Department of  
Environmental Protection

**Required Attachments:**

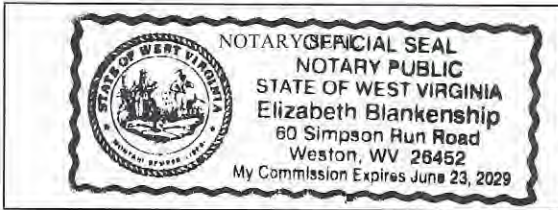
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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



**Certification of Notice is hereby given:**

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

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



Subscribed and sworn before me this 3 day of Oct 2024  
Elizabeth Blankenship Notary Public  
 My Commission Expires 6/23/2029

**Oil and Gas Privacy Notice:**

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

RECEIVED  
 Office of Oil and Gas  
 NOV 13 2024  
 WV Department of  
 Environmental Protection



4706900357

WW-6A  
(9-13)

API NO. 47-069  
OPERATOR WELL NO. Carl Rotter OHI 201H  
Well Pad Name: Carl Rotter OHI

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: 11/7 Date Permit Application Filed: 11/7

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: Carl J. & Grace A. Rotter  
Address: 2 Melrose Drive  
Chillicothe, OH 45601

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

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

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

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

SURFACE OWNER(s) (Impoundments or Pits)

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

COAL OWNER OR LESSEE

Name: Tunnel Ridge- Allinace Resources GP LLC  
Address: 184 Schoolhouse Lane  
Valley Grove, WV 28060

COAL OPERATOR

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

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

Name: None  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

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

\*Please attach additional forms if necessary

RECEIVED  
Office of Oil and Gas  
NOV 13 2024  
WV Department of  
Environmental Protection

12/13/2024



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: 11/7 Date Permit Application Filed: 11/7

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

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

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

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

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

SURFACE OWNER(s) (Impoundments or Pits)

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

COAL OWNER OR LESSEE

Name: The Kathleen S. Craft Foundation & The Joseph W. Craft III Foundation  
Address: 2502 E. 45th St.  
Tulsa, OK 74105-5147

COAL OPERATOR

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

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

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

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

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

\*Please attach additional forms if necessary

RECEIVED  
Office of Oil and Gas  
NOV 13 2024  
WV Department of  
Environmental Protection



**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

RECEIVED  
Office of Oil and Gas

NOV 13 2024

WV Department of  
Environmental Protection

**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 shall 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

12/13/2024



WW-6A  
(8-13)

4706900357  
API NO. 47-069  
OPERATOR WELL NO. Carl Rotter OHI 201H  
Well Pad Name: Carl Rotter OHI

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

**Water Well Testing:**

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

**Water Testing Laboratories:**

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

**Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:**

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

**Written Comment:**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

RECEIVED  
Office of Oil and Gas  
NOV 13 2024  
WV Department of  
Environmental Protection

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

12/13/2024



**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.

RECEIVED  
Office of Oil and Gas  
NOV 13 2024  
WV Department of  
Environmental Protection

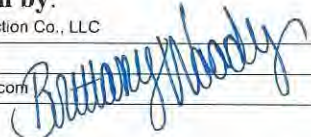


WW-6A  
(8-13)

API NO. 47-069-00357  
OPERATOR WELL NO. Carl Rotter OHI 201H  
Well Pad Name: Carl Rotter OHI

**Notice is hereby given by:**

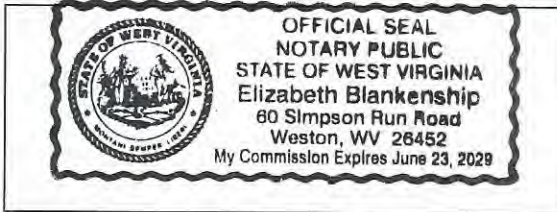
Well Operator: SWN Production Co., LLC  
Telephone: 304-884-1610  
Email: Brittany\_Woody@swn.com



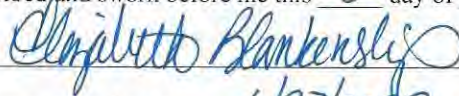
Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Facsimile: 304-884-1690

**Oil and Gas Privacy Notice:**

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



Subscribed and sworn before me this 3 day of Oct., 2024.



Notary Public

My Commission Expires 6/23/2029

RECEIVED  
Office of Oil and Gas  
NOV 13 2024  
WV Department of  
Environmental Protection

12/13/2024



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

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

**Date of Notice:** 1/25/2023      **Date of Planned Entry:** 2/1/2023

**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: Carl J. and Grace A. Rotter

Address: 2 Melrose Dr  
Chillicothe, OH 45601

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

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

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

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

COAL OWNER OR LESSEE

Name: The Kathleen S. Craft Foundation & The Joseph W. Craft III Foundation

Address: 2502 E 45th ST  
Tulsa, OK 74105-5147

MINERAL OWNER(s)

Name: Carl J. and Grace A. Rotter

Address: 2 Melrose Drive  
Chillicothe, OH 45601

\*please attach additional forms if necessary

**Notice is hereby given:**

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

State: <u>WV</u>	Approx. Latitude & Longitude: <u>40.101501, -80.542417</u>
County: <u>Ohio</u>	Public Road Access: <u>Trestlework Rogers Road</u>
District: <u>Liberty</u>	Watershed: <u>Little Wheeling Creek</u>
Quadrangle: <u>Valley Grove</u>	Generally used farm name: <u>Carl Rotter OH</u>

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

**Notice is hereby given by:**

Well Operator: SWN PRODUCTION COMPANY, LLC

Telephone: 304-884-1610

Email: brittany\_woody@swn.com

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

Facsimile: 304-884-1690

RECEIVED  
Office of Oil and Gas  
**NOV 13 2024**  
WV Department of  
Environmental Protection

**Oil and Gas Privacy Notice:**

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



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

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

**Date of Notice:** 1/25/2023      **Date of Planned Entry:** 2/1/2023

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

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

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

**Notice is hereby provided to:**

SURFACE OWNER(S)  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_

COAL OWNER OR LESSEE  
 Name: Tunnel Ridge/Alliance Resources GP LLC Attn: Evan Midler  
 Address: 184 Schoolhouse Lane  
Valley Grove, WV 26060

MINERAL OWNER(S)  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \*please attach additional forms if necessary

**Notice is hereby given:**

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

State: <u>WV</u>	Approx. Latitude & Longitude: <u>40.101501, -80.542417</u>
County: <u>Ohio</u>	Public Road Access: <u>Trestlework Rogers Road</u>
District: <u>Liberty</u>	Watershed: <u>Little Wheeling Creek</u>
Quadrangle: <u>Valley Grove</u>	Generally used farm name: <u>Carl Rotter OHI</u>

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

**Notice is hereby given by:**

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

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

RECEIVED  
Office of Oil and Gas  
**NOV 13 2024**  
WV Department of  
Environmental Protection

**Oil and Gas Privacy Notice:**

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







WW-6A5  
(1/12)

Operator Well No. Carl Rotter OHI 201H

4706900357

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

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

**Date of Notice:** 02/20/2023 **Date Permit Application Filed:** 11/13/2024

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

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED  HAND  
DELIVERY

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

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

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

Name: Carl & Grace Rotter  
Address: 35850 Jennie Ln.  
Willoughby, OH 44094

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

**Notice is hereby given:**

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

State: West Virginia UTMNAD 83 Easting: 539,000.62  
County: Ohio Northing: 4,439,128.58  
District: Liberty Public Road Access: Rogers Road  
Quadrangle: Valley Grove, WV Generally used farm name: Carl Rotter OHI  
Watershed: Upper Ohio South

**This Notice Shall Include:**

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

Well Operator: SWN Production Company, LLC  
Telephone: 304-884-1642  
Email: reid\_croft@swn.com

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

RECEIVED  
Office of Oil and Gas  
NOV 13 2024

**Oil and Gas Privacy Notice:**

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

WV Department of  
Environmental Regulation

12/13/2024





4706900357

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

October 3, 2024

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

Subject: DOH Permit for the Carl Rotter Well Pad, Ohio County  
Carl Rotter OHI 201H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2013-0307 which has been issued to SWN Production Company, LLC for access to the State Road for a well site located off Ohio County Route 40/5 SLS MP 1.2.

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

RECEIVED  
Office of Oil and Gas  
NOV 13 2024  
WV Department of  
Environmental Protection

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



## Attachment VI Frac Additives

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

RECEIVED  
Office of Oil and Gas

NOV 13 2024

WV Department of  
Environmental Protection

As of 7/5/2023

12/13/2024



OPERATOR: SWN Production Co., LLC

WELL NO: Carl Rotter OHI 201H

PAD NAME: Carl Rotter OHI

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

SIGNATURE: *Brittany Wooley*

### WELL RESTRICTIONS CHECKLIST

#### HORIZONTAL 6A WELL

#### Well Restrictions

**\*\*Pad Built 6/26/2013**

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

DEP Waiver and Permit Conditions

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

DEP Waiver and Permit Conditions

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

DEP Waiver and Permit Conditions

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

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

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

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

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

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

RECEIVED  
Office of Oil and Gas  
NOV 13 2024  
WV Department of  
Environmental Protection





USGS 7.5 VALLEY GROVE QUAD MAP



WEST VIRGINIA COUNTY MAP

# CARL ROTTER OHI WELL PAD CONSTRUCTION AS-BUILT & RECLAMATION PLAN

LIBERTY DISTRICT, OHIO COUNTY, WV  
SEPTEMBER 2017

**LOCATION COORDINATES:**

**ACCESS ROAD ENTRANCE**  
 LATITUDE: 40.088700 LONGITUDE: -80.530450 (NAD 83)  
 N 4438823.7 E 538258.8 (UTM ZONE 17 METERS)

**WELL PAD CENTER**  
 LATITUDE: 40.101501 LONGITUDE: -80.542441 (NAD 83)  
 N 4439123.2 E 538968.8 (UTM ZONE 17 METERS)

**NOTES:**

1. THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURBED AREA AS OF AUGUST 2, 2017. LARSON DESIGN GROUP IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THE SITE AFTER THE ABOVE MENTIONED DATE.
2. PROPERTY INFORMATION SHOWN HEREON WAS PROVIDED BY SOUTHWESTERN ENERGY AND MAY NOT REFLECT CURRENT BOUNDARY LOCATION.

DIST. DISTURBED AREA: 14.0 ACRES  
 ROAD DISTURBED AREA: 3.0 ACRES  
 PAD DISTURBED AREA: 9.0 ACRES



WEST VIRGINIA DIVISION OF HIGHWAYS COUNTY ROAD MAP



WELL NAME	WV NORTH NAD 83	WV NORTH NAD 83	UTM (METERS) ZONE 17	NAD 83 LAT & LONG	ELEVATION (FEET)
CARL ROTTER OHI (EPA USE ONLY)	N 535008.81 E 1700923.64	N 583044.08 E 1470059.62	N 443912.32 E 538967.77	NAD 83 LAT: 40.101576 LONG: -80.542427	1356.06

**SHEET INDEX**

- 1 COVER SHEET
- 2-3 EVACUATION ROUTE/PREVAILING WINDS
- 4 AS-BUILT OVERALL PLAN SHEET INDEX
- 5 ACCESS ROAD AS-BUILT PLAN
- 6 WELL PAD AS-BUILT PLAN
- 7 ACCESS ROAD AS-BUILT PROFILE
- 8 WELL PAD AS-BUILT PROFILE
- 9 AS-BUILT RECLAMATION PLAN OVERALL PLAN SHEET INDEX
- 10 AS-BUILT ACCESS ROAD RECLAMATION PLAN
- 11 AS-BUILT WELL PAD RECLAMATION PLAN
- 12 GENERAL NOTES AND DETAILS
- 13-14 DETAILS

**DESIGN CERTIFICATION**

THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CSR 35-8.

ENGINEER/ESTIMATE OF QUANTITIES - WELL SITE PAD DATA (DRILLING)		
INSTALL MOUNTABLE BERM	44	CY
SEED & MULCH DISTURBED AREAS	205	SY
10' COMPOST SOCK	252	LF
STONE FOR PAD SURFACE REPAIR AND MOUNTABLE BERM STONE SURFACING	143	CY
WELL SITE PAD DATA (RECLAMATION)		
REMOVE SUMP	2	EA
BREACH BERM	2	EA
10' WIDE RIP-RAP DISCHARGE CHANNELS	30	CY

*Strader Gower*

10/8/2024



MISS Utility of West Virginia  
 1-800-245-4848  
 West Virginia State Law  
 (Section XIV, Chapter 24-C)  
 Requires that you call two business days before you dig in the state of West Virginia.  
 IT'S THE LAW!



DATE: 10/9/17  
 SHEET NO. 14  
 PROJECT NO. 7688-016-008



NO.	DATE	BY	DESCRIPTION
1	10/9/2017	LDG	FINAL AS-BUILT PLAN
2	10/9/2017	LDG	FINAL AS-BUILT PLAN
3	10/9/2017	LDG	FINAL AS-BUILT PLAN
4	10/9/2017	LDG	FINAL AS-BUILT PLAN

**CARL ROTTER OHI WELL PAD**  
 LIBERTY DISTRICT, OHIO COUNTY, WEST VIRGINIA  
 SWN Production Company, LLC  
 175 Innovation Drive  
 Jones Law, WV 26378  
 PHONE 304.684.1677  
 FAX 304.684.1677  
 Larson Design Group • Architects Engineers Surveyors  
 2502 Community Square  
 Morgantown, WV 26506  
 PHONE 800.777.2940 • TOLL FREE 877.333.6603  
 FAX 304.323.9202 • www.larsondesigngroup.com

4706900357