



west virginia department of environmental protection

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

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

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 3H
47-069-00356-00-00

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

Operator's Well Number: CARL ROTTER OHI 3H
Farm Name: CARL J & GRACE A ROTTER
U.S. WELL NUMBER: 47-069-00356-00-00
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

<u>494512924</u>	<u>069-Ohio</u>	<u>3-Liberty</u>	<u>648-Valley Grove</u>
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Operator ID County District Quadrangle

2) Operator's Well Number: Carl Rotter OHI 3H 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- 6548', Target Base TVD- 6607', Anticipated Thickness- 59', Associated Pressure- 4295

8) Proposed Total Vertical Depth: 6580'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 26,687'

11) Proposed Horizontal Leg Length: 19715.46'

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: _____

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Strader Gower
10/08/2024

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	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#	26687'	26687' ✓	Tail 4760sx/ 100' Inside Intermediate
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A ✓	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.380	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:					<p>RECEIVED Office of Oil and Gas NOV 13 2024 WV Department of Environmental Protection</p>
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 bottoms up and continuing until operator is satisfied with borehole conditions.

*Note: Attach additional sheets as needed.

Southwestern Energy Company

Proposed Drilling Program

Well: CARL ROTTER OHI 3
 Field: PANHANDLE FIELD WET
 County: OHIO
 SHL (NAD83): 40.101521 Latitude -80.542428 Longitude
 BHL (NAD83): 40.151213 Latitude -80.571355 Longitude
 KB Elev: 1,362 ft MSL KB: 26 ft AGL

Re-entry Rig: SDC 40
 Prospect: Marcellus Shale
 State: WV



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'	26,687'

CEMENT DETAIL

	Sacks	Class	Density
Conductor	140	A	19.3
Surface	891	A	15.6
Intermediate	815	A	15.6
Production	4760	A	14.5-15.0

110' to 787'
 ↓
 Air/Mist
 787' to 2,220'
 ↓
 Air/Mist
 2,220' to 5,929'
 ↓
 Air/Mist

KOP at 5,929' MD

Freshwater Depth - 585' TVD
 Coal Depth - 722' TVD
 Saltwater Depth - 832' TVD
 TVD - 6,580'
 TMD - 26,687'

TD at 5,929'
 5,929' to 6,492'
 12.0-12.5 ppg

6,580' TVD Target Center

TD at 26,687' MD
 6,580' TVD

LP at 6,492' MD

SHL Onondaga 6,605' TVD

Onondaga 6,605' TVD

6,492' to 26,687'
 12.5-13.5 ppg

Created by: Sebastian Ziaja on 02/21/2023

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Strader Gower
 10/08/2024

12/13/2024

WW-9
(4/16)

4706900356

API Number 47 - 069 - _____
Operator's Well No. Carl Rotter OHI 3H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC OP Code 494512924

Watershed (HUC 10) Upper Ohio South Quadrangle 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 SOBMs from KOP to TD

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

Additives to be used in drilling medium? Attachment 3B

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

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

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

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

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

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

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

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

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Environmental Protection

Subscribed and sworn before me this 3 day of October, 2024

Elizabeth Blankenship Notary Public
My commission expires 6/23/2029



SWN Production Co., LLC

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: _____

Title: Oil & Gas Inspector

Date: 10/08/2024

Field Reviewed? () Yes () No

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MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

4706900356



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

API NO. 47-XXX-XXXXX
WELL NAME: Carl Rotter OHI 3H
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: _____

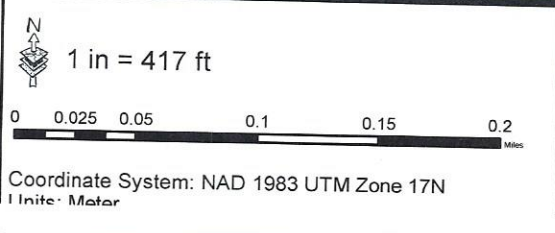
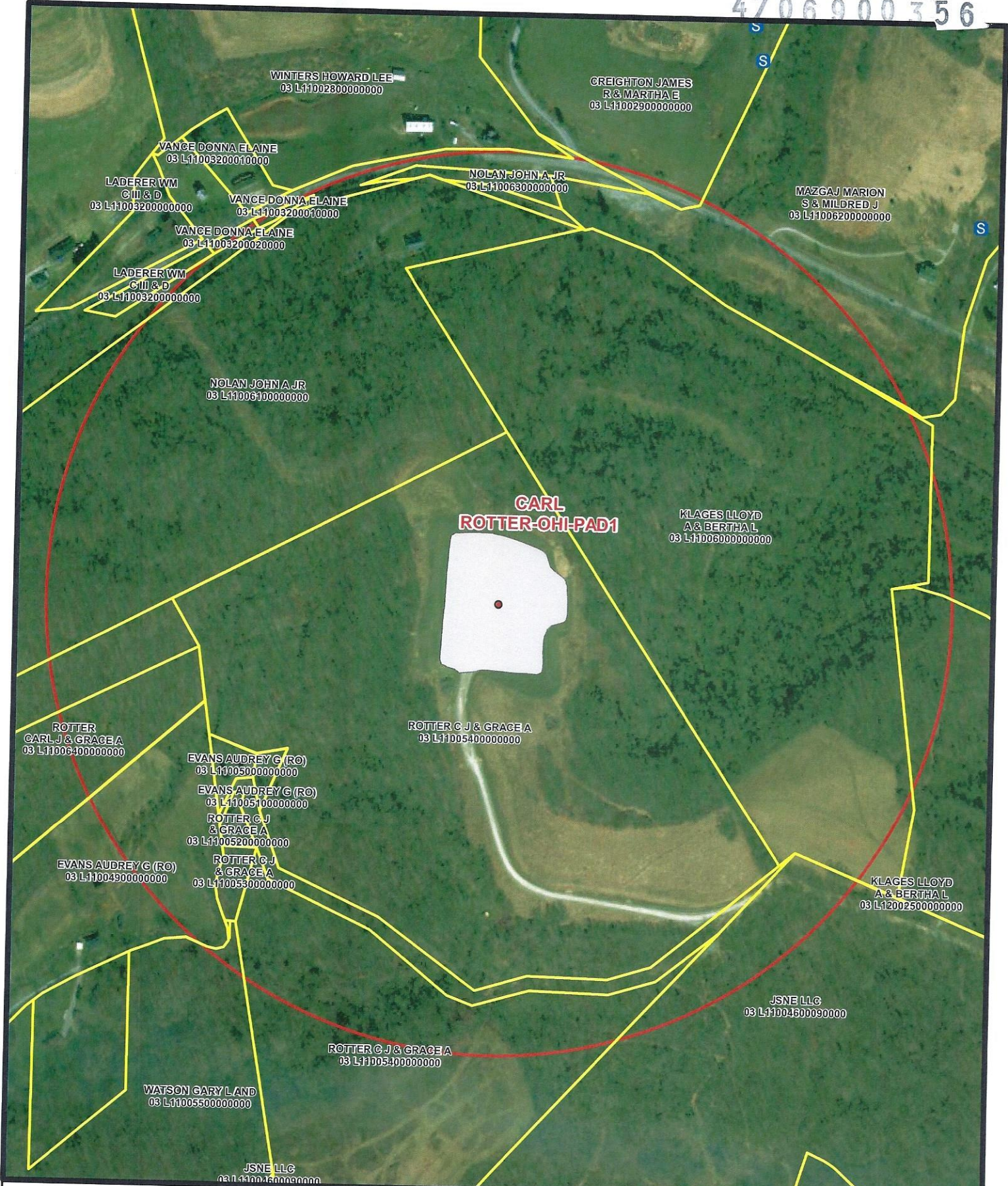
Date: _____

Title: _____

SWN PRODUCTION COMPANY, LLC – CONFIDENTIAL

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S Spring
 W Water Well
 P Pond

1500' Buffer
 Parcel

Coordinates: 40.101498, -80.542329

Water Purveyor Map
Well Pad: Carl Rotter
County: OH

Southwestern Energy

12/13/2024

Date: 9/10/2020 | Author: willish

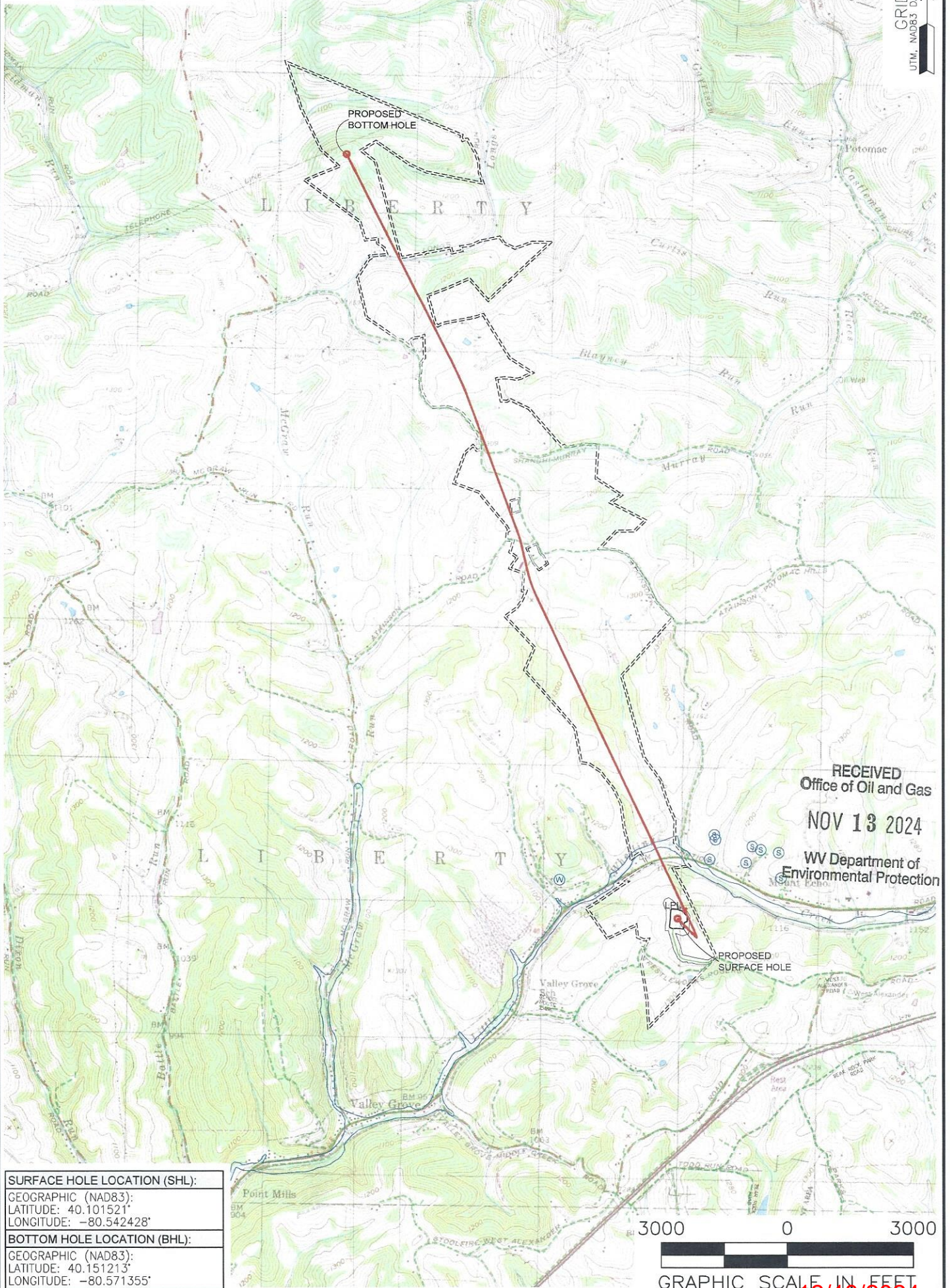
4706900356



www.jhacompanies.com

68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

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



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SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.101521°
LONGITUDE: -80.542428°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.151213°
LONGITUDE: -80.571355°



12/13/2024

NOTES ON SURVEY

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

LEGEND:

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

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: CARL ROTTER OHI	WELL # 3H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY: OHIO	CODE: 103	DISTRICT: LIBERTY
SURFACE OWNER: CARL J. & GRACE A. ROTTER	USGS 7 1/2 QUADRANGLE MAP NAME: WILEYVILLE, WV		
		API # 47-103-XXXX	

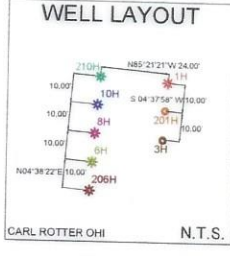
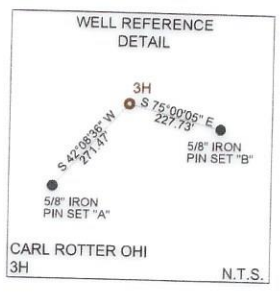
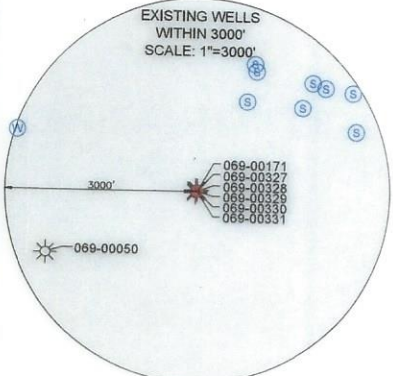
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 St. Clairsville, Ohio 43950
 740-695-6100

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

LATITUDE: 40°07'30" SURFACE HOLE (2000' SCALE) 281'
 8378'
 LATITUDE: 40°10'00" BOTTOM HOLE (2000' SCALE)

LONGITUDE: 80°32'30" BOTTOM HOLE (2000' SCALE) 5623'
 8549'
 LONGITUDE: 80°32'30" SURFACE HOLE (2000' SCALE)

LINE	BEARING	DISTANCE
L1	N37°40'08"E	1465.84'
L2	N32°01'35"E	1639.89'



- 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 PLAT 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.

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4439125.49 EASTING: 539000.39
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4439186.81 EASTING: 539052.27
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4444628.61 EASTING: 536508.22



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 *Joseph J. Hunt*

COMPANY: **SWN** Production Company, LLC

WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)	COMPANY: CARL ROTTER OHI OPERATOR'S WELL #: 3H API WELL #: 47 069 00356 STATE COUNTY PERMIT
	WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>	WATERSHED: UPPER OHIO SOUTH DISTRICT: LIBERTY COUNTY: OHIO SURFACE OWNER: CARL J. & GRACE A. ROTTER OIL & GAS ROYALTY OWNER: CARL J. & GRACE A. ROTTER

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

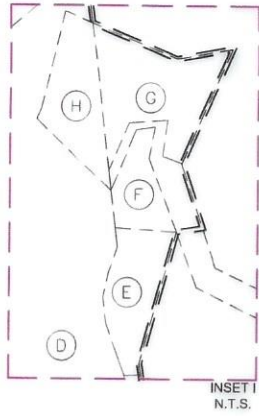
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6580' TVD 26687' TMD

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

DESIGNATED AGENT: BRITTANY WOODY
 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	REVISIONS:	DATE:
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	10-17-2024 API NO: 47-103-XXXXX DRAWN BY: Z. WOOD SCALE: 1" = 3000' DRAWING NO: 2018-153 WELL LOCATION PLAT



ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
J	ROTTER CARL J & GRACE A	3-L11-65
K	TUNNEL RIDGE LLC	3-L11-72
L	TUNNEL RIDGE LLC	3-L11-71
M	HOLLOWAY STRICKLAND III	3-L11-32
N	VANCE DONNA ELAINE	3-L11-32.2
O	VANCE DONNA ELAINE	3-L11-32.1
P	GROUX EDWARD G JR & GROUX JEFFREY L	3-L11-27
Q	GROUX EDWARD G & LYDIA C-LIFE & GROUX EDWARD G JR	3-L11-26
R	GROUX EDWARD G & LYDIA C-LIFE & GROUX EDWARD G JR	3-L11-26.6
S	KNIGHT CRAIG C & KATHLEEN	3-L8-33.8
T	CREWS MICAH J & TERRA J	3-L8-33.3
U	CREWS MICAH J & TERRA J	3-L8-33.11
V	SHILLING ROBERT A SR	3-L8-33
W	RAILING BILL	3-L8-12.7
X	PORTER MATHEW L & STEPHANIE	3-L8-12.14
Y	TUNNEL RIDGE LLC	3-L8-12.3
Z	FRIO JAMES W	3-L8-12
AA	PORTER S A; KNOLLINGER B & GERLING K K & MARQUART K L	3-L8-3
AB	KINNEY KATHY J & JOSEPH H	3-L8-6
AC	KINNEY KATHY J & JOSEPH H	3-L8-5
AD	LINK RICHARD C	3-L5-22.4
AE	LINK RICHARD CHARLES	3-L5-22.3
AF	LINK ROBERT W JR & D M (LIFE) & LINK RICHARD C	3-L5-22.6
AG	LINK RICHARD C	3-L5-22.1
AH	WADDELL DAVID A	3-L5-23.5
AI	LINK EDWARD R & ELIZABETH A	3-L5-22.5
AJ	LINK EDWARD R & ELIZABETH A	3-L5-22.2
AK	LINK EDWARD ROBERT & ELIZABETH ANN	3-L5-21.1
AL	YOUNG DAVID M & P J	3-L5-13.1
AM	FARMER CLARENCE S SR & C	3-L5-14.1
AN	DILLE RONALD A ET AL	3-L5-2
AO	LIFE & LIBERTY EQUESTRIAN CENTER LLC	3-L5-1.1
AP	MILLER PETER R & CHERYL	3-L4-121
AQ	LOUGH DANIEL R SR & PE	3-L5-1.2
AR	TAGGART SHIRLEY TOD	3-L1-41
AS	MILLER JOHN L	3-L2-7.1
AT	MINDA JOHN P & CHARLOTTE MAE	3-L5-3.1
AU	PAVLIC YORK	3-L5-5.1
AV	TAGGART SHIRLEY - TOD	3-L5-5.3
AW	WILLIAMS NANCY LEE & DAVID B	3-L5-5.4
AX	MONROE E L & S J	3-L5-7
AY	MONROE GENE & SHIRLEY	3-L5-7.3
AZ	DOLENCE DONALD F & J L	3-L5-11
BA	RATCLIFFE TRAVIS CHRISTOPHER (LE)	3-L5-12.1
BB	RATCLIFFE TRAVIS C	3-L5-12
BC	RATCLIFFE MICHAEL T	3-L5-12.4
BD	JOHNSTON ANN & WILLIAM H JR	3-L5-12.3

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	NOLAN JOHN A JR	3-L11-61
3	NOLAN JOHN A JR	3-L11-66
4	WV STATE DEP OF HIGHWAYS	US ROUTE 40
5	WINTERS FAMILY FARM LLC	3-L11-28
6	DAVIS DAVID E JR	3-L8-35
7	JONES ROBERT C	3-L8-11.1
8	KNIGHT CRAIG C & KATHLEEN	3-L8-33.5
9	SHILLING ROBERT A SR ESTATE	3-L8-33
10	ZAAYER THOMAS R	3-L8-33.14
11	HUDRLIK THOMAS P & TERESA	3-L8-12.12
12	JONES ROBERT C	3-L8-11
13	RAILING BIL	3-L8-12.8
14	TUSTIN VICKI L & DANIEL P	3-L8-12.6
15	TUSTIN DANIEL PAUL JR	3-L8-12.11
16	BLOOMFIELD R RICHARD	3-L8-12.10
17	BECK BARNETT E & LAURIE L	3-L8-12.5
18	RAAB BERNARD T & MARJORIE A	3-L8-7
19	RAAB DANIEL A & CANDICE M CADDIES	3-L8-7.1
20	BURROWS JENNIFER G	3-L8-4.1
21	DOYLE PAUL DAVID & DAWN M	3-L8-4
22	KNOLLINGER WALTER W JR & MONA DEE	3-L5-23.4
23	LINK EDWARD & ELIZABETH	3-L5-23.7
24	LINK EDWARD R & ELIZABETH A	3-L5-22
25	PRINCE DONALD D	3-L5-24
26	YOUNG CASEY P & DEVAN M	3-L5-13
27	TAGGART SHIRLEY J	3-L5-3

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	KLAGES LLOYD A JR	3-L11-46.18
B	WATSON GARY L & ROSE	3-L11-55.1
C	WEASE DUANE L & RHONDA L.	3-L11-55.2
D	DAVIS DONNA E & WEASE RHONDA	3-L11-49
E	ROTTER C J & GRACE A	3-L11-53
F	ROTTER C J & GRACE A	3-L11-52
G	DAVIS DONNA E & DANIEL R	3-L11-50
H	DAVIS DONNA EVANS & DANIEL R	3-L11-49.2
I	ROTTER CARL J & GRACE A	3-L11-64



12/13/2024

REVISIONS:	47 069 00356

COMPANY:			
OPERATOR'S		CARL ROTTER OHI	
WELL #:		3H	
DISTRICT:	LIBERTY	COUNTY:	OHIO
		STATE:	WV
		DATE:	10-17-2024
		API NO:	47-103-XXXXX
		DRAWN BY:	Z. WOOD
		SCALE:	N/A
		DRAWING NO:	2018-153
		WELL LOCATION PLAT	

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
BE	PRINCE DONALD D	3-L5-25
BF	PRINCE DONALD D	3-L5-11.2
BG	SMITH SUZAN LOUISE	3-L5-27
BH	SMITH SUSAN NORTHWOOD & SMITH RICHARD ALAN	3-L5-23.1
BI	MILLER JASON & RACHEL	3-L5-23.3
BJ	RITCHEA DALE R & JACKIE A	3-L5-23.2
BK	WADDELL DONALD L & DEBORAH JO	3-L5-23.6
BL	WADDELL DONALD L & DEBORAH JO	3-L5-23
BM	WADDELL DONALD L & D J	3-L8-39
BN	DILLE STEVEN	3-L8-8
BO	BROWN NEAL P	3-L8-9.6
BP	DILLE SCOTT A & JILL L	3-L8-9.3
BQ	PORTER GEORGE E III & M A LIVING TRUST	3-L8-9.5
BR	REASS JOSHUA S & HOLLY C HOLLOWAY	3-L9-1
BS	SHILLING JODY LEE	3-L8-10
BT	CREIGHTON RANDY J	3-L8-11.2
BU	MAIN PAUL A	3-L8-10.1
BV	WHEAT RICHARD C & K J	3-L8-10.2
BW	BALL LARRY G	3-L8-42
BX	HARDMAN SUSAN J H	3-L8-37
BY	ADAMS BERNARD T & PATRICIA	3-L8-37.1
BZ	WINTERS HOWARD	3-L8-36
CA	HOWARD WINTERS	3-L11-28.1
CB	CREIGHTON RANDY J	3-L11-29
CC	MAZGAJ MILDRED J	3-L11-62
CD	TUNNELL RIDGE LLC	3-L12-32
CE	GRIFFITH SHARON & WARREN	3-L11-60.1
CF	TUSTIN DANIEL P JR	3-L8-12.9
CG	KLUG JOSEPH T	3-L8-34.1
CH	SHILLING ROBERT A SR	3-L8-33.9

12/13/2024

REVISIONS:	4706900356			
COMPANY:				
OPERATOR'S	CARL ROTTER OHI		DATE: 10-17-2024	
WELL #:	3H		API NO: 47-103-XXXXX	
DISTRICT:	COUNTY:	STATE:	DRAWN BY: Z. WOOD	
LIBERTY	OHIO	WV	SCALE: N/A	
			DRAWING NO: 2018-153	
			WELL LOCATION PLAT	

WW-6A1
(5/13)

Operator's Well No. Carl Rotter OHI 3H

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

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

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

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

See Exhibit "A"

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

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

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

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

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

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

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

Well Operator: SWN Production Company, LLC

By: Tim Ledet

Its: Staff Landman



4706900356

EXHIBIT "A"
Carl Rotter OHI 3H
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
		Mary Woelfel, married	SWN Production Company, LLC	18.00%	954 475	0.00%
		Kaytlyn Tarose Sheard, married	SWN Production Company, LLC	18.00%	954 548	0.00%
		Shane Cleary, widower	SWN Production Company, LLC	18.00%	954 565	0.00%
		Patrick O'Donnell Cramer, II, married	SWN Production Company, LLC	18.00%	955 382	0.00%
		Charles T. Corn, widower, Lisa L. Martin, Philip G. Jowett, and Kristen J. Reeves	SWN Production Company, LLC	18.00%	955 394	0.00%
		Lisa Larson, married	SWN Production Company, LLC	18.00%	956 274	0.00%
		Sherry A. Brown, single	SWN Production Company, LLC	18.00%	956 292	0.00%
		Linda James, married	SWN Production Company, LLC	18.00%	956 529	0.00%
		Stephen P. Cramer, single	SWN Production Company, LLC	18.00%	956 751	0.00%
		Mark Irvin Cramer, married	SWN Production Company, LLC	18.00%	957 388	0.00%
		Jacquelyn Louise Carlucci, married	SWN Production Company, LLC	18.00%	957 592	0.00%
		Noah Osterfund Ballweg, single	SWN Production Company, LLC	18.00%	958 278	0.00%
		Natalie Von Wright Cramer, married	SWN Production Company, LLC	18.00%	959 266	0.00%
		The Qualified Terminable Interest Trust by the Last Will & Testament of James Cole Abbott	SWN Production Company, LLC	18.00%	959 297	0.00%
		Katherine C. Green, married	SWN Production Company, LLC	18.00%	967 416	0.00%
		Luther Memorial Church of Madison, Wisconsin	SWN Production Company, LLC	18.00%	969 127	0.00%
21)	03-00L8-0004-0000	William Lawrence Urban, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	951 568	0.00%
		Marijyn A. Osterfund Tally, married	SWN Production Company, LLC	18.00%	951 574	0.00%
		Sharr Renee Ballweg, married	SWN Production Company, LLC	18.00%	952 17	0.00%
		John Thomas Urban, married	SWN Production Company, LLC	18.00%	952 552	0.00%
		Robert Naegle, married	SWN Production Company, LLC	18.00%	953 23	0.00%
		David E. Osterfund, married	SWN Production Company, LLC	18.00%	953 29	0.00%
		Christopher David Osterfund, single	SWN Production Company, LLC	18.00%	953 35	0.00%
		David Lawrence Osterfund, Jr., single	SWN Production Company, LLC	18.00%	953 41	0.00%
		Kent Naegle, married	SWN Production Company, LLC	18.00%	953 424	0.00%
		Carol Weeks, married	SWN Production Company, LLC	18.00%	953 430	0.00%
		Linda Abbott Sutton, married	SWN Production Company, LLC	18.00%	953 482	0.00%
		Joy Abbott, widow	SWN Production Company, LLC	18.00%	953 488	0.00%
		Shawn Diane Osterfund, single	SWN Production Company, LLC	18.00%	953 758	0.00%
		Cococlyia Kay Abbott, widow	SWN Production Company, LLC	18.00%	953 776	0.00%
		Mary Woelfel, married	SWN Production Company, LLC	18.00%	954 435	0.00%
		Kaytlyn Tarose Sheard, married	SWN Production Company, LLC	18.00%	954 548	0.00%
		Shane Cleary, widower	SWN Production Company, LLC	18.00%	954 565	0.00%
		Patrick O'Donnell Cramer, II, married	SWN Production Company, LLC	18.00%	955 382	0.00%
		Charles T. Corn, widower, Lisa L. Martin, Philip G. Jowett, and Kristen J. Reeves	SWN Production Company, LLC	18.00%	955 394	0.00%
		Lisa Larson, married	SWN Production Company, LLC	18.00%	956 274	0.00%
		Sherry A. Brown, single	SWN Production Company, LLC	18.00%	956 292	0.00%
		Linda James, married	SWN Production Company, LLC	18.00%	956 529	0.00%
		Stephen P. Cramer, single	SWN Production Company, LLC	18.00%	956 751	0.00%
		Mark Irvin Cramer, married	SWN Production Company, LLC	18.00%	957 388	0.00%
		Jacquelyn Louise Carlucci, married	SWN Production Company, LLC	18.00%	957 592	0.00%
		Noah Osterfund Ballweg, single	SWN Production Company, LLC	18.00%	958 278	0.00%
		Natalie Von Wright Cramer, married	SWN Production Company, LLC	18.00%	959 266	0.00%
		The Qualified Terminable Interest Trust by the Last Will & Testament of James Cole Abbott	SWN Production Company, LLC	18.00%	959 297	0.00%
		Katherine C. Green, married	SWN Production Company, LLC	18.00%	967 416	0.00%
		Luther Memorial Church of Madison, Wisconsin	SWN Production Company, LLC	18.00%	969 127	0.00%
22)	03-00L5-0023-0004	Walter W. Knollinger, Jr. and Mona Dee Knollinger, husband and wife	Great Lakes Energy Partners, L.L.C.	12.50%	778 773	0.00%
			Chesapeake Appalachia, L.L.C.		808 391	
			SWN Production Company, LLC		883 515	
23)	03-00L5-0023-0007	Edward Robert Link and Elizabeth A. Link, as joint tenants with right of survivorship	Range Resources-Appalachia, LLC	15.00%	851 536	0.00%
			Chesapeake Appalachia, L.L.C.		808 455	
			SWN Production Company, LLC		883 539	
24)	03-00L5-0022-0000	Edward Robert Link and Elizabeth A. Link, as joint tenants with right of survivorship	Range Resources-Appalachia, LLC	15.00%	851 536	0.00%
			Chesapeake Appalachia, L.L.C.		808 455	
			SWN Production Company, LLC		883 539	
25)	03-00L5-0024-0000	Sharon Grace Porter	Chesapeake Appalachia, L.L.C.	18.00%	833 304	0.00%
		The Estate of Charles Montgomery Eberhardt by and through Monica J. Franklin, Executrix	SWN Production Company, LLC		885 668	
			Chesapeake Appalachia, L.L.C.	20.00%	840 578	0.00%
		D. Pauline Archer, a widow	SWN Production Company, LLC		885 668	
			Chesapeake Appalachia, L.L.C.	18.00%	827 643	0.00%
		Gary Farrar	SWN Production Company, LLC		885 656	
			Chesapeake Appalachia, L.L.C.	18.00%	828 320	0.00%
		William Ross Krumme	SWN Production Company, LLC		885 668	
			Chesapeake Appalachia, L.L.C.	18.00%	831 479	0.00%
		Marlene Lambert	SWN Production Company, LLC		885 656	
			Chesapeake Appalachia, L.L.C.	18.00%	832 46	0.00%
		Gwen L. Leistner	SWN Production Company, LLC		885 668	
			Chesapeake Appalachia, L.L.C.	18.00%	828 269	0.00%
		Robert Eugene Main	SWN Production Company, LLC		885 668	
			Chesapeake Appalachia, L.L.C.	18.00%	826 753	0.00%
		Gene Masteller	SWN Production Company, LLC		885 656	
			Chesapeake Appalachia, L.L.C.	18.00%	826 768	0.00%
			SWN Production Company, LLC		885 668	

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EXHIBIT "A"
Carl Rotter OHI 3H
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
		Beth Darlene McCammon, single	Chesapeake Appalachia, L.L.C.	18.00%	826 758	0.00%
		Wilma M. Moore, widow	SWN Production Company, LLC		885 656	
		C. Lucille Oberman, widow	Chesapeake Appalachia, L.L.C.	18.00%	827 638	0.00%
		Dena Pogue, single	SWN Production Company, LLC		885 656	
		Jennifer Pogue, single	Chesapeake Appalachia, L.L.C.	18.00%	827 633	0.00%
		Linda Ann McCammon Porter	SWN Production Company, LLC		885 656	
		Gail K Spence	Chesapeake Appalachia, L.L.C.	18.00%	832 51	0.00%
		Martha Elizabeth Strohecker, single	SWN Production Company, LLC		885 668	
		Ethel L. Danges a k a Ethel Lynn Krumme	Chesapeake Appalachia, L.L.C.	18.00%	828 715	0.00%
		Sandra W. Weckesser a k a Sandra K Waiver	SWN Production Company, LLC		885 668	
		Joann Chegan, single	Chesapeake Appalachia, L.L.C.	18.00%	826 391	0.00%
		William B Pogue	SWN Production Company, LLC		885 656	
		Linda Masteller McClendon	Chesapeake Appalachia, L.L.C.	18.00%	828 301	0.00%
		Patricia Kirkbride, single	SWN Production Company, LLC		885 668	
		James I Masteller	Chesapeake Appalachia, L.L.C.	18.00%	826 763	0.00%
		John E. Masteller, a married man dealing in his sole and separate property	SWN Production Company, LLC		885 656	
		Tamara Kerr	Chesapeake Appalachia, L.L.C.	18.00%	831 501	0.00%
		William C. Roal	SWN Production Company, LLC		885 656	
		Beverly D. Hertig, widow	Chesapeake Appalachia, L.L.C.	18.00%	833 605	0.00%
		Billie Sprows	SWN Production Company, LLC		885 668	
		Jason E Martin	Chesapeake Appalachia, L.L.C.	18.00%	833 605	0.00%
		Robert Wardle	SWN Production Company, LLC		885 668	
		Eleanor B Riggs	Chesapeake Appalachia, L.L.C.	18.00%	833 605	0.00%
		Nadine Montgomery McDowell	SWN Production Company, LLC		885 668	
		Jessica Byrd Gabenhorst f k a Jessica L. Byrd, single	Chesapeake Appalachia, L.L.C.	18.00%	835 45	0.00%
		Jeremy Owen Byrd, single	SWN Production Company, LLC		885 668	
		Susan D. DiGiandomenico, a k a Susan DiGrandoman	Chesapeake Appalachia, L.L.C.	18.00%	838 720	0.00%
		James Robert Johnson	SWN Production Company, LLC		885 668	
		Heather L. Montgomery, single	Chesapeake Appalachia, L.L.C.	18.00%	835 160	0.00%
		Ian L. Montgomery, single	SWN Production Company, LLC		885 668	
		26) 03-00L5-0011-0000 Sean J. Young	Chesapeake Appalachia, L.L.C.	18.00%	835 154	0.00%
		David M. Young	SWN Production Company, LLC		885 668	
		Carole C. Del Bonis	Chesapeake Appalachia, L.L.C.	18.00%	840 645	0.00%
		Maureen A. Ridgely	SWN Production Company, LLC		885 668	
		James T. Boggs and Susan V. Young Boggs, a k a Susan V. Boggs, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	841 715	0.00%
		Casey S. Landry	SWN Production Company, LLC		885 668	
			Chesapeake Appalachia, L.L.C.	18.00%	841 715	0.00%
			SWN Production Company, LLC		885 536	
			Chesapeake Appalachia, L.L.C.	18.00%	835 649	0.00%
			SWN Production Company, LLC		885 716	
			Chesapeake Appalachia, L.L.C.	18.00%	835 744	0.00%
			SWN Production Company, LLC		885 716	
			Chesapeake Appalachia, L.L.C.	18.00%	836 720	0.00%
			SWN Production Company, LLC		885 716	
			Chesapeake Appalachia, L.L.C.	18.00%	836 769	0.00%
			SWN Production Company, LLC		885 716	
			Chesapeake Appalachia, L.L.C.	18.00%	836 764	0.00%
			SWN Production Company, LLC		885 716	
			Chesapeake Appalachia, L.L.C.	15.00%	838 67	0.00%
			SWN Production Company, LLC		885 716	

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EXHIBIT "A"
Carl Rotter OHI 3H
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
27)	01-00L5-0003-0000	Joseph P. Taggart and Shirley J. Taggart, husband and wife	Chesapeake Appalachia, L L C	18.00%	814 533	0.00%
			SWN Production Company, LLC		883 563	
		Michael T. Ratchiff	Chesapeake Appalachia, L L C	15.00%	795 622	0.00%
			SWN Production Company, LLC		885 272	

END OF EXHIBIT "A"

Potentially Impacted Parcels - Parcels that may be impacted during drilling

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

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

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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 3H in Ohio County, West Virginia, drilling under National Road, Four Winds Lane, Short McGraws Road, G.C. and P. Road, Shanghai Murray Road, Rock Woods Road, Long Run Road and Kittyoungo Lane

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, Four Winds Lane, Short McGraws Road, G.C. and P. Road, Shanghai Murray Road, Rock Woods Road, Long Run Road and Kittyoungo Lane. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,



Tim Ledet
Staff Landman
SWN Production Company, LLC

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

Notice is hereby given:

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

Paper: 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 3H

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

Business Conducted: Natural gas production.

Location –

State: West Virginia County: Ohio
District: Liberty Quadrangle: Valley Grove
UTM Coordinate NAD83 Northing: 4,439,125
UTM coordinate NAD83 Easting: 539,000
Watershed: Upper Ohio South

Coordinate Conversion:

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

Electronic notification:

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

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Reviewing Applications:

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

WV Department of
Environmental Protection

Submitting Comments:

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

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

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

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

Date of Notice Certification: 11/7

API No. 47- 069 -
Operator's Well No. Carl Rotter OHI 3H
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: West Virginia
County: 069-Ohio
District: Liberty
Quadrangle: Valley Grove
Watershed: Upper Ohio South

UTM NAD 83 Easting: 539000.39
Northing: 4439125.49
Public Road Access: Rogers Road
Generally used farm name: Carl Rotter

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

*PLEASE CHECK ALL THAT APPLY

- 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION

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NOT REQUIRED

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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.

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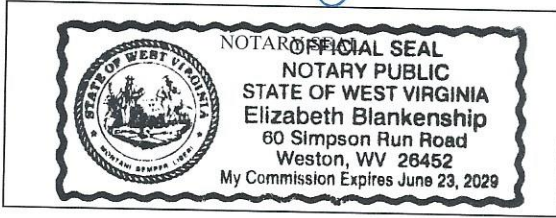
Certification of Notice is hereby given:

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

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

Brittany Woody

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



Subscribed and sworn before me this 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 deprivacyofficer@wv.gov.

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

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

Date of Notice: 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 26060

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

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

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

Date of Notice: 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

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Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

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Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

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Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WV Department of
Environmental Protection

12/13/2024

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610

Email: Brittany_Woody@swn.com

Brittany Woody

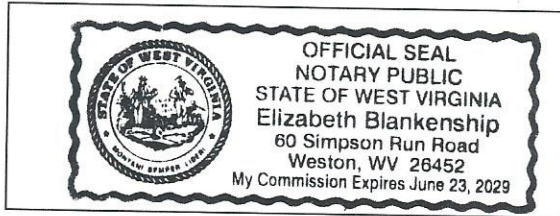
Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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



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

Elizabeth Blankenship Notary Public

My Commission Expires 6/23/2029

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NOV 13 2024
WV Department of
Environmental Protection

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: WV
 County: Ohio
 District: Liberty
 Quadrangle: Valley Grove

Approx. Latitude & Longitude: 40.101501, -80.542417
 Public Road Access: Trestlework Rogers Road
 Watershed: Little Wheeling Creek
 Generally used farm name: Carl Rotter OHI

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

RECEIVED
Office of Oil and Gas

NOV 13 2024

WV Department of
Environmental Protection

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

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.

12/13/2024

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 10/16/2024 **Date Permit Application Filed:** 11/11

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

- HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

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

Name: _____
Address: _____

Notice is hereby given:

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

State: WV UTM NAD 83 Easting: 539000.39
County: Ohio Northing: 4439125.49
District: Liberty Public Road Access: Realtree 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(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

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

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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 PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**
Date of Notice: 10/16/2024 **Date Permit Application Filed:** 11/17

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

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

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

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

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

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:	<u>WV</u>	UTM NAD 83	Easting:	<u>539000.39</u>
County:	<u>Ohio</u>		Northing:	<u>4439125.49</u>
District:	<u>Liberty</u>	Public Road Access:	<u>Realtree Road</u>	
Quadrangle:	<u>Valley Grove, WV</u>	Generally used farm name:	<u>Carl Rotter OHI</u>	
Watershed:	<u>Upper Ohio South</u>			

This Notice Shall Include:

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

Well Operator: SWN Production Company, LLC
Telephone: 304-231-8329
Email: reid_croft@swn.com

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

Facsimile: _____

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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.

WV Department of
Environmental Protection



4706900356

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 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Carl Rotter Well Pad, Ohio County
Carl Rotter OHI 3H 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

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

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NOV 13 2024

WV Department of
Environmental Protection

12/13/2024

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-ethanediy), .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
Tolicide 4Frac	Biocide	Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8
		Quaternary ammonium compounds	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
Plexslick 930	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Oleic Acid Diethanolamide	93-83-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Ammonium Chloride	12125-02-9
		Sodium Chloride	7647-14-5
Plexaid 655NM	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
Plexslick V996	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Sodium Chloride	7647-14-5
Plexaid 655WG	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
		Glycerin	67-56-1
Clearal 270	Biocide	Glutaraldehyde	111-30-8
		Didecylidimethylammonium Chloride	7173-51-5
		Quaternary Ammonium compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
StimSTREAM SC 398 CW	Scale Inhibitor	Ethylene glycol	107-21-1
		CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		Water	7732-18-5
StimSTREAM FR 9800	Friction Reducer	Chemstream-Alkane-00001	Chemstream-Alkane-00001
		Chemstream-Polymer-00001	Chemstream-Polymer-00001
		Ethoxylated alcohols (C12-16)	68551-12-2
		Water	7732-18-5
StimSTREAM FR 2800	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9
		Water	7732-18-5
StimSTREAM FR 9725	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium Chloride	12125-02-9
		Water	7732-18-5
StimSTREAM SC 398 C	Scale Inhibitor	CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		Water	7732-18-5

As of 7/5/2023

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Office of Oil and Gas

NOV 13 2024

WV Department of
Environmental Protection
12/13/2024

OPERATOR: SWN Production Co., LLC

WELL NO: Carl Rotter OHI 3H

PAD NAME: Carl Rotter OHI

REVIEWED BY: _____

SIGNATURE: *Brittany Woody*

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

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NOV 13 2024
WV Department of
Environmental Protection
12/13/2024

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

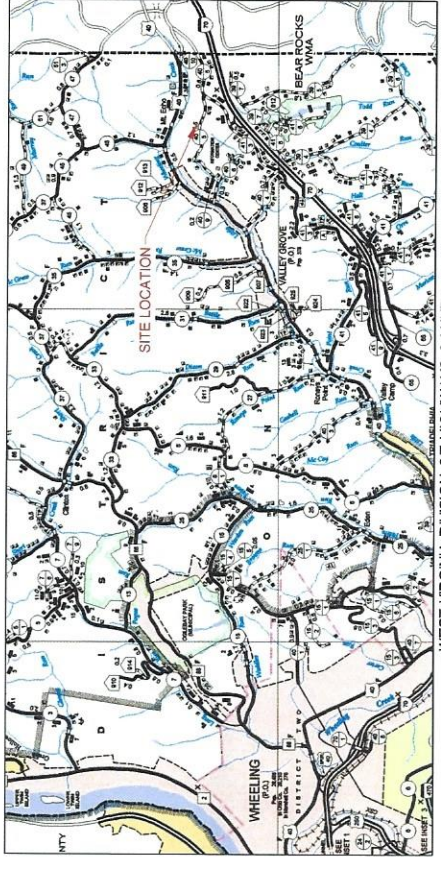
LIBERTY DISTRICT, OHIO COUNTY, WV
SEPTEMBER 2017

LOCATION COORDINATES:
ACCESS ROAD ENTRANCE (NAD-83)
LATITUDE: 40.098760 LONGITUDE: -80.539450
N 4438823.7 E 539255.8 (UTM ZONE 17 METERS)

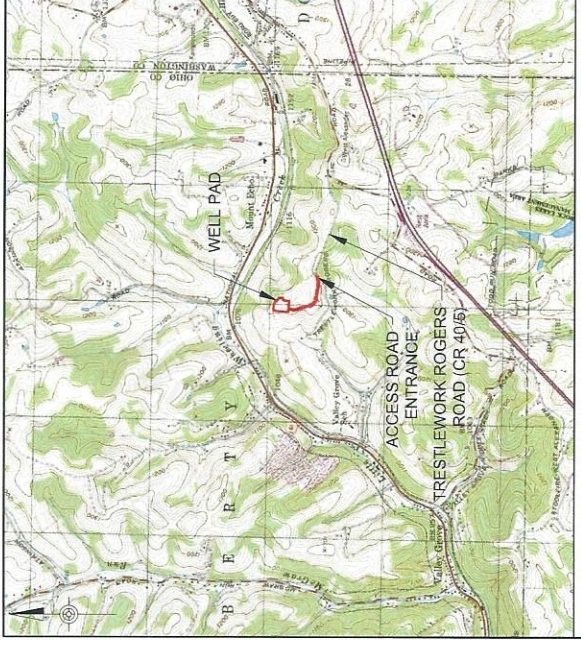
WELL PAD CENTER (NAD-83)
LATITUDE: 40.101501 LONGITUDE: -80.542441
N 4439123.2 E 539999.3 (UTM ZONE 17 METERS)

- NOTES:**
- 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.
 - PROPERTY INFORMATION SHOWN HEREON WAS PROVIDED BY SOUTHWESTERN ENERGY AND MAY NOT REFLECT CURRENT BOUNDARY LOCATION.

TOTAL DISTURBED AREA: 14.0 ACRES
ROAD DISTURBED AREA: 5.0 ACRES
PAD DISTURBED AREA: 9.0 ACRES

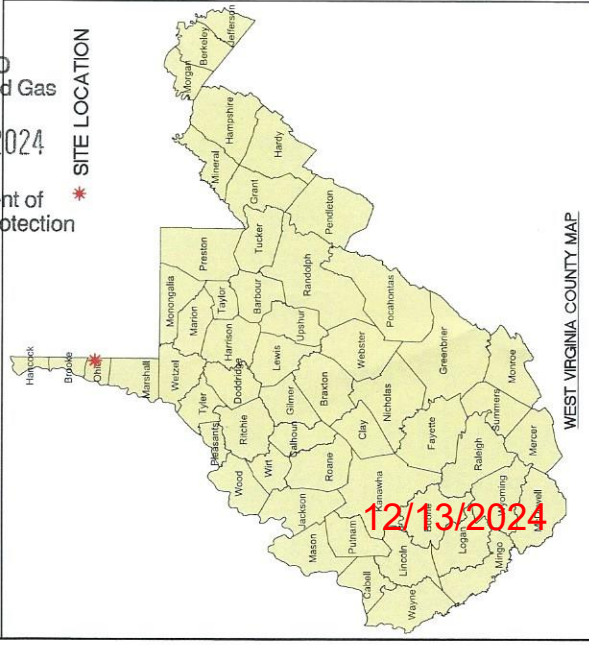


WEST VIRGINIA DIVISION OF HIGHWAYS COUNTY ROAD MAP



USGS 7.5 VALLEY GROVE QUAD MAP

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NOV 13 2024
WV Department of
Environmental Protection



WEST VIRGINIA COUNTY MAP

WELL NAMES	WV NORTH NAD 27		WV NORTH NAD 83		UTM (METERS) ZONE 17		NAD 83 LAT & LONG		ELEVATION (FEET)
	N	E	N	E	N	E	N	E	
CARL ROTTER OHI (DRILLED) AP# 47-000-00771	N 655950.51 E 1708302.89	N 655946.05 E 1678908.02	N 433913.65 E 533003.77	N 433913.65 E 533003.77	4339136.5 5330037.7	4339136.5 5330037.7	4339136.5 5330037.7	4339136.5 5330037.7	1336.05'

- SHEET INDEX**
- COVER SHEET
 - EVACUATION ROUTE/PREVAILING WINDS
 - AS-BUILT OVERALL PLAN SHEET INDEX
 - ACCESS ROAD AS-BUILT PLAN
 - WELL PAD AS-BUILT PLAN
 - ACCESS ROAD AS-BUILT PROFILE
 - WELL PAD AS-BUILT PROFILE
 - AS-BUILT RECLAMATION PLAN OVERALL PLAN SHEET INDEX
 - AS-BUILT ACCESS ROAD RECLAMATION PLAN
 - AS-BUILT WELL PAD RECLAMATION PLAN
 - GENERAL NOTES AND DETAILS
 - 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.

ENGINEERING ESTIMATE OF QUANTITIES

WELL SITE PAD DATA (DRILLING)	CY
INSTALL MOUNTABLE BERM	44
SEED & MULCH DISTURBED AREAS	205
18" COMPOST SOCK	262
STONE FOR PAD SURFACE REPAIR AND MOUNTABLE BERM STONE SURFACING	143
WELL SITE PAD DATA (RECLAMATION)	
REMOVE SUMP	2
BREACH BERM	2
10' WIDE RIP-RAP	30
DISCHARGE CHANNELS	

Strader Gower
10/08/2024



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!



CARL ROTTER OHI WELL PAD
LIBERTY DISTRICT, OHIO COUNTY, WEST VIRGINIA

SWN Production Company, LLC
179 Innovation Drive
Jane Lew, WV 26378
PHONE 304.884.1622

Larson Design Group • Architects Engineers Surveyors
2502 Cranberry Square
Morgantown, WV 26508
PHONE 304.777.2940 TOLL FREE 877.323.6603
FAX 570.323.9902 • www.larsondesigngroup.com

NO	DATE	COMMENTS	BY	CHK
0	9/14/2017	DRAFT AS-BUILT PLAN	BLC	RMR
1	10/9/2017	FINAL AS-BUILT PLAN	BLC	RMR

ISSUE / REVISIONS



4706000356

ORIGINAL SHEET SIZE:
ANSI FULL BLEED D
(22.00 X 34.00 INCHES)
SHEET NO. 1 OF 14
PROJECT NO. 7688-016-008