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west virginia department of environmental protection

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

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

Monday, April 10, 2023  
WELL WORK PERMIT  
Horizontal 6A / New Drill

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

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 New Drill  
Date Issued: 4/10/2023

Promoting a healthy environment.

04/14/2023

# 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

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1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 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.

04/14/2023



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

1) Well Operator: SWN Production Co., LLC 494512924 069-Ohio 3-Liberty 648-Valley Grove  
Operator ID County District Quadrangle

2) Operator's Well Number: Carl Rotter OHI 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'

13) Method to Determine Fresh Water Depths: Salinity Profile with nearby water well 4706900330

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: \_\_\_\_\_

*SWN Group  
STRADER LOWER  
2/27/23*

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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							

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**PACKERS**

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Kind:				
Sizes:				
Depths Set:				

*Steve Crowe*  
STEADER WORKS  
2/28/2023



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.

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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.

*Straper*  
STRAPER  
2/28/2023

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 SOBM from KOP to TD

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

Additives to be used in drilling medium? Attachment 3B

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

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

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

Apex Sanitary Landfill U6-08438, 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*

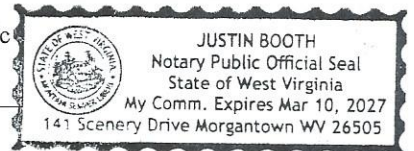
Company Official (Typed Name) Brittany Woody

Company Official Title Senior Regulatory Analyst

Subscribed and sworn before me this 23rd day of FEBRUARY, 20 23

*Justin Booth* Notary Public

My commission expires 3/10/2027



04/14/2023



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: [Signature]

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

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Title: Oil & Gas Inspector

Date: 2/28/2023

Field Reviewed? ( ) Yes ( ) No

04/14/2023

# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

**API NO. 47-XXX-XXXXX**  
**WELL NAME: Carl Rotter OHI 3H**  
**Valley Grove QUAD**  
**Liberty DISTRICT**  
**OHIO COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody

*Brittany Woody*

Date: 2/6/2023

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: *John Strader* *STRADER*  
*GOVERNOR*

Date: 2/28/2023

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

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Approved by:

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

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

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

SWN PRODUCTION COMPANY, LLC – CONFIDENTIAL

04/14/2023



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

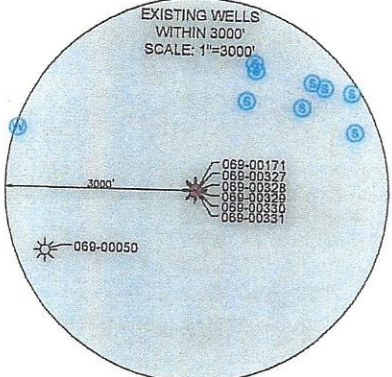
8378'

LATITUDE: 40°10'00" BOTTOM HOLE (2000' SCALE)

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

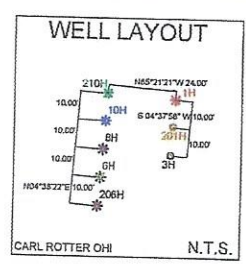
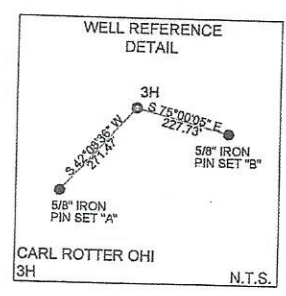
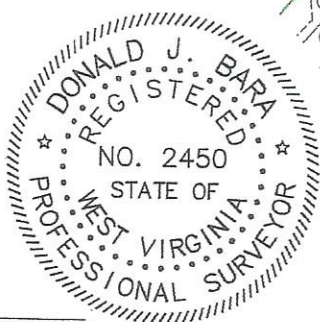
GRID NORTH  
 UTM, NAD83 DATUM, ZONE 17, US FT

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



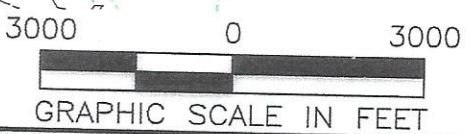
- NOTES ON SURVEY**
- COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
  - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
  - 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.

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



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

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

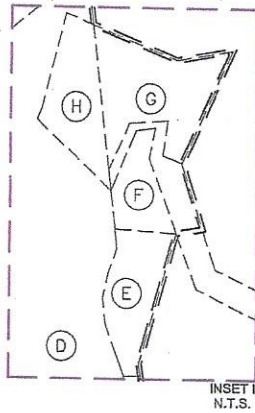


I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2450

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	MINIMUM DEGREE OF ACCURACY: 1/200	COMPANY: <b>SWN</b> Production Company, LLC
	PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	OPERATOR'S WELL #: <b>CARL ROTTER OHI 3H</b>
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"/>	API WELL #: <b>47 069 00356</b> STATE COUNTY PERMIT	ESTIMATED DEPTH: 6580' TMD 26687 TMD
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 <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY) TARGET FORMATION: MARCELLUS	ELEVATION: 1336.3' QUADRANGLE: VALLEY GROVE, WV ACREAGE: ±77.45 ACREAGE: ±77.45	DATE: 02-23-2023 API NO: 47-103-XXXXX DRAWN BY: Z. WOOD SCALE: 1" = 3000' DRAWING NO: 2018-153 WELL LOCATION PLAT
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	REVISIONS:





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

04/14/2023

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
TRACT	SURFACE OWNER	TAX PARCEL
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	3-L8-33
10	ZAYER 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



REVISIONS:	

COMPANY:		
OPERATOR'S WELL #:	CARL ROTTER OHI 3H	
DISTRICT:	COUNTY:	STATE:
LIBERTY	OHIO	WV
		DATE: 02-23-2023
		API NO: 47-103-XXXX
		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

04/14/2023

REVISIONS:	 	
	COMPANY:	Production Company™
	OPERATOR'S	CARL ROTTER OHI
	WELL #:	3H
	DISTRICT:	COUNTY:
	LIBERTY	OHIO
		STATE:
		WV
		DATE: 02-23-2023
		API NO: 47-103-XXXXX
		DRAWN BY: Z. WOOD
		SCALE: N/A
		DRAWING NO: 2018-153
		WELL LOCATION PLAT

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

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

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

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


**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

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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 Co., LLC   
 By: \_\_\_\_\_ Gavin Nadeau, RPL  
 Its: \_\_\_\_\_ Landman



**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

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT LEASED BY SWN PRODUCTION COMPANY, LLC
1)	03-0L11-0054-0000	Carl J. Rotter and Grace A. Rotter, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	791/16 885/248	0.00%
2)	03-0L11-0061-0000	John A. Nolan, Jr.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	837/743 885/728	0.00%
3)	03-0L11-0066-0000	John A. Nolan, Jr.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	837/743 885/728	0.00%
4)	US 40	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	830/11 883/611	0.00%
5)	03-0L11-0028-0000	Marshall W. Deitt and Janet L. Deitt, husband and wife	Fossil Creek Ohio, LLC Gulfport Energy Corporation American Petroleum Partners Operating, L.L.C. SWN Production Company, LLC	18.00%	871/730 893/379 909/775 946/405	
		Howard Louis Winters, married	Fossil Creek Ohio, LLC Gulfport Energy Corporation American Petroleum Partners Operating, L.L.C. SWN Production Company, LLC	18.00%	871/732 893/379 909/775 946/405	
		Paul J. Winters and Linda A. Winters, husband and wife	Fossil Creek Ohio, LLC Gulfport Energy Corporation American Petroleum Partners Operating, L.L.C. SWN Production Company, LLC	18.00%	871/736 893/379 909/775 946/405	0.00%
		David D. Winters and Marylee Winters, husband and wife	Fossil Creek Ohio, LLC Gulfport Energy Corporation American Petroleum Partners Operating, L.L.C. SWN Production Company, LLC	18.00%	871/742 893/379 909/775 946/405	
6)	03-00L8-0035-0000	David Elwood Davis, Jr., single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	829/791 885/656	0.00%
7)	03-00L8-0011-0001	CNX Gas Company LLC	SWN Production Company, LLC	21.00%	947/657	0.00%
8)	03-00L8-0033-0005	Shirley A. Knight, a widow and Craig C. Knight and Katsleen Knight, his wife	NPAR, LLC Chevron U.S.A., Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	814/347 827/269 858/359 883/611	0.00%
9)	03-00L8-0033-0000	Robert A. Shilling, Jr.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	820/582 885/596	
		Karen C. Shilling, f/k/a Karen C. Viola	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	820/587 885/596	
		Jody Lee Klug	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	820/592 885/596	0.00%
		C. Murray Shilling	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	820/629 885/596	
10)	03-00L8-0033-0014	Thomas R. Zaeyer, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	867/707 883/778	0.00%
11)	03-00L8-0012-0012	Thomas P. Hudrik and Teresa Hudrik, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	869/136 883/778	0.00%
12)	03-00L8-0011-0000	CNX Gas Company LLC	SWN Production Company, LLC	18.00%	947/651	0.00%
13)	03-00L8-0012-0008	William Railing and Mary E. Railing, husband and wife	Trifenergy Holdings, LLC NPAR, LLC Chevron U.S.A. Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.00%	805/77 825/767 827/254 858/359 883/623	0.00%
14)	03-00L8-0012-0006	Daniel Paul Tustin, Sr. and Vicki Lynn Tustin, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	814/418 885/548	0.00%
15)	03-00L8-0012-0011	Daniel Paul Tustin, Jr., single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	792/229 885/248	0.00%
16)	03-00L8-0012-0010	R. Richard Bloomfield and Lynette Louise Bloomfield, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	863/163 883/766	0.00%
17)	03-00L8-0012-0005	Barnett Edward Beck and Laurie L. Beck, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	792/234 885/248	0.00%
18)	03-00L8-0007-0000	Bernard T. Raab and Marjorie A. Raab, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	869/461 883/778	0.00%
19)	03-00L8-0007-0001	Bernard T. Raab and Marjorie A. Raab, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	869/461 883/778	0.00%
20)	03-00L8-0004-0001	William Lawrence Urban, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	951/568	
		Marilyn A. Osterfund Tally, married	SWN Production Company, LLC	18.00%	951/574	
		Sharr Renee Bullweg, married	SWN Production Company, LLC	18.00%	952/37	
		John Thomas Urban, married	SWN Production Company, LLC	18.00%	952/552	
		Robert Naegle, married	SWN Production Company, LLC	18.00%	953/23	
		David E. Osterfund, married	SWN Production Company, LLC	18.00%	953/29	
		Christopher David Osterfund, single	SWN Production Company, LLC	18.00%	953/35	
		David Lawrence Osterfund, Jr., single	SWN Production Company, LLC	18.00%	953/41	
		Kent Naegle, married	SWN Production Company, LLC	18.00%	953/424	
		Carol Weeks, married	SWN Production Company, LLC	18.00%	955/430	
		Linda Abbott Sutton, married	SWN Production Company, LLC	18.00%	953/482	
		Joy Abbott, widow	SWN Production Company, LLC	18.00%	953/488	
		Shawn Diane Osterfund, single	SWN Production Company, LLC	18.00%	953/758	
		Cecelia Kay Abbott, widow	SWN Production Company, LLC	18.00%	953/776	
		Mary Woelfel, married	SWN Production Company, LLC	18.00%	954/355	
		Kaytlyn Tarese Sheard, married	SWN Production Company, LLC	18.00%	954/548	
		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	
		Charles T. Corn, widower, Lisa L. Martin, Philip G. Jewett, and Kristen J. Reeves	SWN Production Company, LLC	18.00%	955/394	
		Lisa Larsen, married	SWN Production Company, LLC	18.00%	956/274	
		Sherry A. Brown, single	SWN Production Company, LLC	18.00%	956/292	
		Linda James, married	SWN Production Company, LLC	18.00%	956/529	
		Stephen P. Cramer, single	SWN Production Company, LLC	18.00%	956/751	
		Mark Irvin Cramer, married	SWN Production Company, LLC	18.00%	957/388	
		Jacquelyn Louise Cartucci, married	SWN Production Company, LLC	18.00%	957/592	
		Noah Osterfund Bullweg, single	SWN Production Company, LLC	18.00%	958/278	
		Natalie Von Wright Cramer, married	SWN Production Company, LLC	18.00%	959/266	
		The Qualified Terminable Interest Trust by the Last Will & Testament of James Cole Abbott	SWN Production Company, LLC	18.00%	959/297	
		Katherine C. Green, married	SWN Production Company, LLC	18.00%	967/416	
		Luther Memorial Church of Madison, Wisconsin	SWN Production Company, LLC	18.00%	969/127	

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 Ohio County, West Virginia

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#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT LEASED BY SWN PRODUCTION COMPANY, LLC
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%
		Marilyn A. Osterfund Tally, married	SWN Production Company, LLC	18.00%	951/574	
		Sharr Renee Bailweg, married	SWN Production Company, LLC	18.00%	952/37	
		John Thomas Urban, married	SWN Production Company, LLC	18.00%	952/352	
		Robert Naegele, married	SWN Production Company, LLC	18.00%	953/23	
		David E. Osterfund, married	SWN Production Company, LLC	18.00%	953/29	
		Christopher David Osterfund, single	SWN Production Company, LLC	18.00%	953/35	
		David Lawrence Osterfund, Jr., single	SWN Production Company, LLC	18.00%	953/41	
		Kent Naegele, married	SWN Production Company, LLC	18.00%	953/424	
		Carol Weeks, married	SWN Production Company, LLC	18.00%	953/430	
		Linda Abbott Sutton, married	SWN Production Company, LLC	18.00%	953/482	
		Joy Abbott, widow	SWN Production Company, LLC	18.00%	953/488	
		Shawn Diane Osterfund, single	SWN Production Company, LLC	18.00%	953/758	
		Cecylia Kay Abbott, widow	SWN Production Company, LLC	18.00%	953/776	
		Mary Woelfel, married	SWN Production Company, LLC	18.00%	954/435	
		Kaydlyn Tarese Sheard, married	SWN Production Company, LLC	18.00%	954/548	
		Shane Cleary, widower	SWN Production Company, LLC	18.00%	954/565	
		Patrick O'Donnell Cramer, II, married	SWN Production Company, LLC	18.00%	955/282	
		Charles T. Corn, widower, Lisa L. Martin, Philip G. Jewett, and Kristen J. Reeves	SWN Production Company, LLC	18.00%	955/294	
		Lisa Larsen, married	SWN Production Company, LLC	18.00%	956/274	
		Sherry A. Brown, single	SWN Production Company, LLC	18.00%	956/292	
		Linda James, married	SWN Production Company, LLC	18.00%	956/529	
		Stephen P. Cramer, single	SWN Production Company, LLC	18.00%	956/751	
		Mark Irvin Cramer, married	SWN Production Company, LLC	18.00%	957/388	
		Jacquelyn Louise Carlucci, married	SWN Production Company, LLC	18.00%	957/592	
		Noah Osterfund Bailweg, single	SWN Production Company, LLC	18.00%	958/278	
		Natalie Von Wright Cramer, married	SWN Production Company, LLC	18.00%	959/266	
The Qualified Terminable Interest Trust by the Last Will & Testament of James Cole Abbott	SWN Production Company, LLC	18.00%	959/297			
Katherine C. Green, married	SWN Production Company, LLC	18.00%	967/416			
Luther Memorial Church of Madison, Wisconsin	SWN Production Company, LLC	18.00%	969/127			
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	

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 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

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT LEASED BY SWN PRODUCTION COMPANY, LLC
25)	03-001.5-0024-0000	Sharon Grace Porter	Chesapeake Appalachia, L.L.C.	18.00%	833/304	0.00%
			SWN Production Company, LLC		885/668	
		The Estate of Charles Montgomery Eberhardt by and through Monica J. Franklin, Executrix	Chesapeake Appalachia, L.L.C.	20.00%	840/578	
			SWN Production Company, LLC		885/668	
		D. Pauline Archer, a widow	Chesapeake Appalachia, L.L.C.	18.00%	827/643	
			SWN Production Company, LLC		885/656	
		Gary Farrar	Chesapeake Appalachia, L.L.C.	18.00%	828/320	
			SWN Production Company, LLC		885/668	
		William Ross Krumme	Chesapeake Appalachia, L.L.C.	18.00%	831/479	
			SWN Production Company, LLC		885/656	
		Marlene Lambert	Chesapeake Appalachia, L.L.C.	18.00%	832/46	
			SWN Production Company, LLC		885/668	
		Gwen L. Leistner	Chesapeake Appalachia, L.L.C.	18.00%	828/269	
			SWN Production Company, LLC		885/668	
		Robert Eugene Main	Chesapeake Appalachia, L.L.C.	18.00%	826/753	
			SWN Production Company, LLC		885/656	
		Gene Masteller	Chesapeake Appalachia, L.L.C.	18.00%	826/768	
			SWN Production Company, LLC		885/668	
		Beth Darlene McCammon, single	Chesapeake Appalachia, L.L.C.	18.00%	826/758	
			SWN Production Company, LLC		885/656	
		Wilda M. Moore, widow	Chesapeake Appalachia, L.L.C.	18.00%	827/638	
			SWN Production Company, LLC		885/656	
		C. Lucille Oberman, widow	Chesapeake Appalachia, L.L.C.	18.00%	827/633	
			SWN Production Company, LLC		885/656	
		Dena Pogue, single	Chesapeake Appalachia, L.L.C.	18.00%	832/51	
			SWN Production Company, LLC		885/668	
		Jennifer Pogue, single	Chesapeake Appalachia, L.L.C.	18.00%	828/315	
			SWN Production Company, LLC		885/668	
		Linda Ann McCammon Porter	Chesapeake Appalachia, L.L.C.	18.00%	826/391	
			SWN Production Company, LLC		885/656	
		Gail K. Spence	Chesapeake Appalachia, L.L.C.	18.00%	828/301	
			SWN Production Company, LLC		885/668	
		Martha Elizabeth Strohecker, single	Chesapeake Appalachia, L.L.C.	18.00%	826/763	
			SWN Production Company, LLC		885/656	
		Ethel L. Denges a/k/a Ethel Lynn Krumme	Chesapeake Appalachia, L.L.C.	18.00%	831/501	
			SWN Production Company, LLC		885/656	
		Sandra W. Weckesser a/k/a Sandra K. Weaver	Chesapeake Appalachia, L.L.C.	18.00%	833/605	
			SWN Production Company, LLC		885/668	
		Joann Chegan, single	Chesapeake Appalachia, L.L.C.	18.00%	832/74	
			SWN Production Company, LLC		885/668	
		William B. Pogue	Chesapeake Appalachia, L.L.C.	18.00%	832/27	
			SWN Production Company, LLC		885/668	
		Linda Masteller McClendon	Chesapeake Appalachia, L.L.C.	18.00%	835/45	
			SWN Production Company, LLC		885/668	
		Patricia Kirkbride, single	Chesapeake Appalachia, L.L.C.	18.00%	838/720	
	SWN Production Company, LLC		885/668			
James I. Masteller	Chesapeake Appalachia, L.L.C.	18.00%	835/160			
	SWN Production Company, LLC		885/668			
John E. Masteller, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	18.00%	835/154			
	SWN Production Company, LLC		885/668			
Tamara Kerr	Chesapeake Appalachia, L.L.C.	18.00%	841/715			
	SWN Production Company, LLC		885/668			
William C. Reed	Chesapeake Appalachia, L.L.C.	18.00%	840/645			
	SWN Production Company, LLC		885/668			
Beverly D. Hertig, widow	Chesapeake Appalachia, L.L.C.	18.00%	837/190			
	SWN Production Company, LLC		885/658			
Billie Sprowis	Chesapeake Appalachia, L.L.C.	18.00%	846/105			
	SWN Production Company, LLC		885/668			
Jason E. Martin	Chesapeake Appalachia, L.L.C.	18.00%	869/117			
	SWN Production Company, LLC		883/778			
Robert Wardle	Chesapeake Appalachia, L.L.C.	18.00%	860/144			
	SWN Production Company, LLC		883/766			
Eleanor B. Riggs	Chesapeake Appalachia, L.L.C.	18.00%	860/149			
	SWN Production Company, LLC		883/766			
Nadine Montgomery McDowell	Chesapeake Appalachia, L.L.C.	18.00%	862/107			
	SWN Production Company, LLC		883/766			
Jessica Byrd Gabenhorst D/a/a Jessica L. Byrd, single	Chesapeake Appalachia, L.L.C.	18.00%	869/439			
	SWN Production Company, LLC		883/778			
Jeremy Owen Byrd, single	Chesapeake Appalachia, L.L.C.	18.00%	869/445			
	SWN Production Company, LLC		883/778			
Susan D. DiGiandomenico, a/k/a Susan DiGiandomenico	Chesapeake Appalachia, L.L.C.	18.00%	873/144			
	SWN Production Company, LLC		883/766			
James Robert Johnson	Chesapeake Appalachia, L.L.C.	18.00%	874/257			
	SWN Production Company, LLC		885/548			
Heather L. Montgomery, single	Chesapeake Appalachia, L.L.C.	18.00%	877/594			
	SWN Production Company, LLC		895/498			
Ian L. Montgomery, single	Chesapeake Appalachia, L.L.C.	18.00%	873/175			
	SWN Production Company, LLC		885/536			
26)	03-001.5-0013-0000	Sean J. Young	Chesapeake Appalachia, L.L.C.	18.00%	835/649	0.00%
			SWN Production Company, LLC		885/716	
		David M. Young	Chesapeake Appalachia, L.L.C.	18.00%	835/744	
			SWN Production Company, LLC		885/716	
		Carole C. Del Bonis	Chesapeake Appalachia, L.L.C.	18.00%	836/730	
			SWN Production Company, LLC		885/716	
Maureen A. Ridgely	Chesapeake Appalachia, L.L.C.	18.00%	836/769			
	SWN Production Company, LLC		885/716			
James T. Boggs and Susan V. Young Boggs, a/k/a Susan V. Boggs, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	836/764			
	SWN Production Company, LLC		885/716			
Casey S. Landry	Chesapeake Appalachia, L.L.C.	15.00%	838/67			
	SWN Production Company, LLC		885/716			
27)	03-001.5-0003-0000	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	
	SWN Production Company, LLC		885/272			

END OF EXHIBIT "A"

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WV Department of  
Environmental Protection

04/14/2023

February 22, 2023

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

**RE:** SWN's proposed New Well: Carl Rotter OHI 3H in Ohio County, West Virginia, Drilling under National Road, Atkinson Potomac Hill Road, and Shanghai and Murray Road.

Dear Mr. Brewer:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under National Road, Atkinson Potomac Hill Road, and Shanghai and Murray Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Respectfully,

**SWN Production Company, LLC**



Gavin Nadeau, RPL  
Landman

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

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

**Notice is hereby given:**

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

**Paper:** The Intelligencer /

**Public Notice Date:** February 22, 2023 & March 1, 2023 /

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 OH1 3H

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

**Business Conducted:** Natural gas production.

**Location –**

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

**Coordinate Conversion:**

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

**Electronic notification:**

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

**Reviewing Applications:**

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

**Submitting Comments:**

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

Office Of Oil and Gas

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.

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Environmental Protection

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

04/14/2023

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

Date of Notice Certification: 3/6

API No. 47- 009 - \_\_\_\_\_  
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:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>539000.38</u>
County:	<u>069-Ohio</u>	- Northing:	<u>4439125.47</u>
District:	<u>Liberty</u>	Public Road Access:	<u>Rogers Road</u>
Quadrangle:	<u>Valley Grove</u>	Generally used farm name:	<u>Carl Rotter</u>
Watershed:	<u>Upper Ohio South</u>		

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<b>OGG OFFICE USE ONLY</b> <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <div style="text-align: right;">                         RECEIVED                          Office Of Oil and Gas                          MAR 08 2023                          WV Department of Environmental Protection  <input type="checkbox"/> RECEIVED  <input type="checkbox"/> RECEIVED                     </div>
--	--	--

**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.

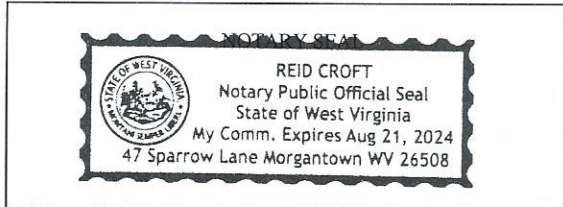
04/14/2023



**Certification of Notice is hereby given:**

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

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



Subscribed and sworn before me this 23<sup>rd</sup> day of February, 2023.

Reid Croft Notary Public

My Commission Expires 8/21/2024

**Oil and Gas Privacy Notice:**

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

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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:** 3/16 **Date Permit Application Filed:** 3/16

**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:** 3/16 **Date Permit Application Filed:** 3/16

**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: \_\_\_\_\_

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WV Department of  
Environmental Protection

\*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 water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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

**Well Location Restrictions**

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

04/14/2023



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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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WV Department of  
Environmental Protection

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

04/14/2023



**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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08 123  
WV Department of  
Environmental Protection

04/14/2023

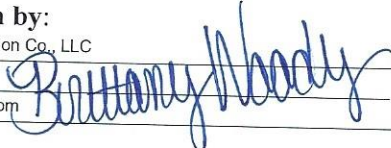


**Notice is hereby given by:**

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610

Email: Brittany\_Woody@swn.com



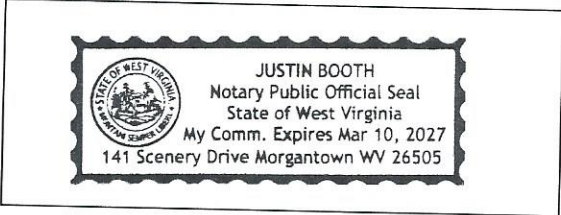
Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

**Oil and Gas Privacy Notice:**

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



Subscribed and sworn before me this 23<sup>RD</sup> day of FEBRUARY 2022.

JA NA Notary Public

My Commission Expires 3/10/2027

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Environmental Protection

04/14/2023

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

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

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

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

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

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

**Notice is hereby provided to:**

SURFACE OWNER(s)

Name: Carl J. and Grace A. Rotter ✓  
Address: 2 Melrose Dr.  
Chillicothe, OH 45601  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

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

MINERAL OWNER(s)

Name: Carl J. and Grace A. Rotter  
Address: 2 Melrose Drive  
Chillicothe, OH 45601  
\*please attach additional forms if necessary

**Notice is hereby given:**

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

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

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

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Office Of Oil and Gas  
MAR 08 2023  
WV Department of  
Environmental Protection

**Notice is hereby given by:**

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

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**04/14/2023**



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

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

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

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

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

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

**Notice is hereby provided to:**

SURFACE OWNER(s)

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

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

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

COAL OWNER OR LESSEE

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

MINERAL OWNER(s)

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

\*please attach additional forms if necessary

**Notice is hereby given:**

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

State: 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

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

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

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**04/14/2023**

**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:** 02/20/2023 **Date Permit Application Filed:** 3/10

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

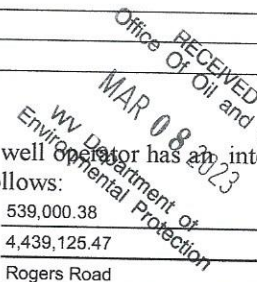
HAND DELIVERY       CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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



**Notice is hereby given:**

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

State: West Virginia  
County: Ohio  
District: Liberty  
Quadrangle: Valley Grove, WV  
Watershed: Upper Ohio South

UTM NAD 83 Easting: 539,000.38  
Northing: 4,439,125.47  
Public Road Access: Rogers Road  
Generally used farm name: Carl Rotter OHI

**This Notice Shall Include:**

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

**Notice is hereby given by:**

Well Operator: SWN Production Company, LLC  
Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Telephone: 304-884-1642  
Email: reid\_croft@swn.com  
Facsimile: \_\_\_\_\_

Authorized Representative: Reid Croft  
Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Telephone: 304-884-1642  
Email: reid\_croft@swn.com  
Facsimile: \_\_\_\_\_

**Oil and Gas Privacy Notice:**

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

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

**Date of Notice:** 02/20/2023      **Date Permit Application Filed:** 3/16

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

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

**Notice is hereby given:**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>539,000.38</u>
County:	<u>Ohio</u>		Northing:	<u>4,439,125.47</u>
District:	<u>Liberty</u>	Public Road Access:	<u>Rogers 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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

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

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
**Division of Highways**

Gregory L. Bailey, P.E.  
Interim  
State Highway Engineer

1900 Kanawha Boulevard East • Building Five • Room 110  
Charleston, West Virginia 25305-0430 • (304) 558-3505

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

February 22, 2023

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

Subject: DOH Permit for the Carl Rotter 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 Southwestern Energy for access to the State Road for a well site located off Ohio County Route 40/6 SLS MP 1.20.

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 October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.  
Regional Operations Engineer  
Central Office O&G Coordinator

Cc: Brittany Woody  
Southwestern Energy  
CH, OM, D-6  
File

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WV Department of  
Environmental Protection

E.E.O./AFFIRMATIVE ACTION EMPLOYER

04/14/2023



Attachment VI Frac Additives

Product Name	Product Use	Chemical Name	CAS Number
AI-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21-1
		Cinnamaldehyde	104-55-2
		Butyl cellosolve	111-76-2
		Formic acid	64-18-6
		Polyether	Proprietary
AP ONE (U.S. Well Services)	Breaker	Acetophenone, thiourea, formaldehyde polymer	68527-49-1
		Ammonium persulfate	7727-54-0
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
CarboNRT	Tracer	Ceramic Proppant	66402-68-4
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
EC6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
Econo-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
Ecopol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacrylate	Proprietary
		Hydrotreated light petroleum distillate	64742-47-8
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
HCL (SWN Well Services)	Hydrochloric Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
LP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
Plexslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
Plexslick 953	Friction Reducer	Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
Plexslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
		Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoxylated	68551-12-2
		Water	7732-15-5
Plexslick V996	no data available	Copolymer of 2-Propeenamide	*****
		Distillates (petroleum), hydrotreated light	64742-47-8
		Alcohol Ethoxylate	*****
		Surfactant	*****
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
		Propenoic acid, polymer with propenamide	9003-06-9
Plexaid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
Plexslick 922	no data available	Copolymer of 2-propenamide	69418-26-4
		Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium chloride ((NH4)Cl)	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
Tolcide 4Frac	Mixture	Phosphonium, tetrakis (hydroxymethyl), Sulfate	55566-30-8
		Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Tolcide P550A	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
		Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	397256-50-7
LD-2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Ethoxylated alcohol	Proprietary
		Poly (oxy-1,2-ethanediy) alpha.-tridecyl.-omega.-hydroxy-, branched	69011-36-5
Legend LD-7750W	Scale Control	Methanol	67-56-1
MC MX 8-4743	Specialty Product	Phosphonic Acid Salt	Proprietary
		Sodium Nitrate	7631-99-4
Ferriplex 80	Iron Control	Sodium erythorbate	6381-77-7
Plexaid 655 WG	Scale Inhibitor	Glycerine	67-56-1
		Water	7732-18-5
		Organic Phosphonic Acid Salts	15827-60-8

As of 9/8/2022

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MA-CB  
WV Department of Environmental Protection

04/14/2023

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

*\* Pad Built 6/26/13*

#### Well Restrictions

- At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
  - DEP Waiver and Permit Conditions
- At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
  - DEP Waiver and Permit Conditions
- At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
  - DEP Waiver and Permit Conditions
- At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
  - Surface Owner Waiver and Recorded with County Clerk, OR
  - DEP Variance and Permit Conditions
- At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
  - Surface Owner Waiver and Recorded with County Clerk, OR
  - DEP Variance and Permit Conditions
- At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
  - Surface Owner Waiver and Recorded with County Clerk, OR
  - DEP Variance and Permit Conditions

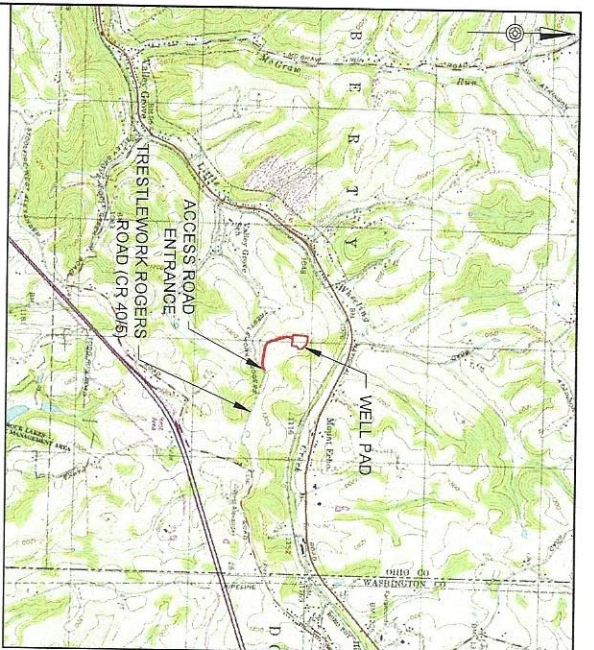
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Office Of Oil and Gas  
MAR 08 2013  
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Environmental Protection



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

LIBERTY DISTRICT, OHIO COUNTY, WV  
SEPTEMBER 2017

04/14/2023

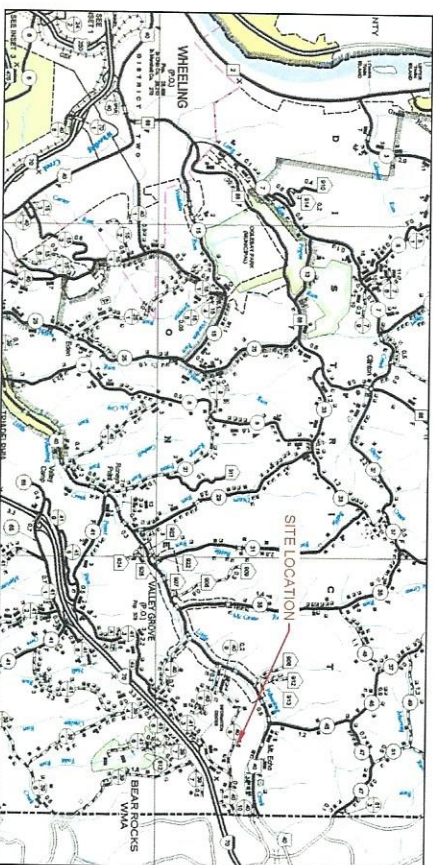


USGS 7.5 VALLEY GROVE QUAD MAP  
SCALE  
2000 0 2000 4000 FEET

**LOCATION COORDINATES:**  
ACCESS ROAD ENTRANCE  
LATITUDE: 40.098790 (NAD 83)  
LONGITUDE: -80.539450 (NAD 83)  
UTM ZONE 17 METERS  
E 539255.8  
WELL PAD CENTER  
LATITUDE: 40.101501 (NAD 83)  
LONGITUDE: -80.542441 (NAD 83)  
UTM ZONE 17 METERS  
E 539899.3

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

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



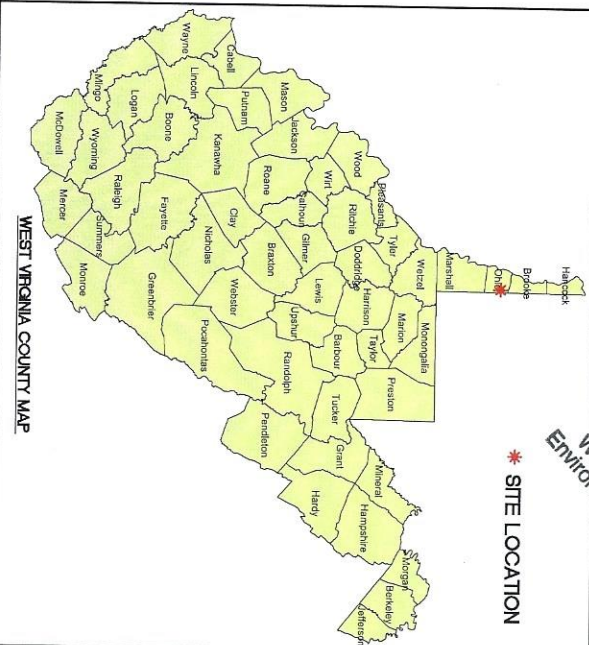
SCALE  
5000 0 5000 10000 FEET

WELL NAMES	NAD 27	NAD 83	UTM (METERS) ZONE 17	NAD 83 LAT & LONG	ELEVATION (FEET)
CARL ROTTER 1H (DRILLED) / #W 472083-00171	N 849009.91 E 1708332.89	N 856048.96 E 1670888.82	N 4439131.58 E 539000.77	LAT 40.10157° LONG -80.542423°	1380.05'

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

**ENGINEERING ESTIMATE OF QUANTITIES**

WELL SITE PAD DATA (DRILLING)	44	CY
INSTALL MOUNTAINABLE BERM AREAS	205	SY
SEED & MULCH DISTURBED AREAS	252	LF
18" COMPOST SOCK	143	CY
STONE FOR PAD SURFACE REPAIR AND MOUNTAINABLE BERM STONE SURFACING		
<b>WELL SITE PAD DATA (RECLAMATION)</b>		
REMOVE SLUMP	2	EA
BREACH BERM	2	EA
10" WIDE RIP-RAP DISCHARGE CHANNELS	30	CY



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Environmental Protection

\* SITE LOCATION

**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.

*Carl Rotter*  
Surveyor  
2/20/2023



MSS Utility of West Virginia  
1-800-245-4948  
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!!



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

**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	BLG	RMR	BY	CHK
1	10/9/2017	FINAL AS-BUILT PLAN				
0	9/14/2017	DRAFT AS-BUILT PLAN				

ISSUE / REVISIONS