



west virginia department of environmental protection

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

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

Monday, March 7, 2022
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359

SPRING, TX 773914954

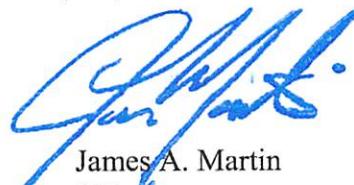
Re: Permit Modification Approval for CARL ROTTER OHI 10H
47-069-00328-00-00

Lateral Extension

SWN PRODUCTION COMPANY, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before 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 10H
Farm Name: CARL J & GRACE A ROTTER
U.S. WELL NUMBER: 47-069-00328-00-00
Horizontal 6A New Drill
Date Modification Issued: 03/07/2022

Promoting a healthy environment.

03/11/2022

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 10H 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 Digitally signed by
Gayne Kmitowski
Date: 2022.03.01
08:20:29 -0500
Gayne Kmitowski

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Down-Dip well to the South, Target Top TVD- 6733' Target Base TVD- 6781', Anticipated Thickness- 58', Associated Pressure- 4414

8) Proposed Total Vertical Depth: 6766'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23344'

11) Proposed Horizontal Leg Length: 16295.43"

12) Approximate Fresh Water Strata Depths: 586'

13) Method to Determine Fresh Water Depths: Salinity Profile Analysis using deepest nearby water well

14) Approximate Saltwater Depths: 832' Salinity Profile Analysis of Pottsville Sandstone

15) Approximate Coal Seam Depths: 721'

16) Approximate Depth to Possible Void (coal mine, karst, other): Possible Void 721'

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: Tunnel Ridge
Depth: 721'
Seam: Pittsburgh
Owner: Tunnel Ridge

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WV Department of
Environmental Protection

WW-6B
(04/15)

4706900328
API NO. 47-009
OPERATOR WELL NO. Carl Ratter OH1 10H
Well Pad Name: Carl Ratter OH1

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#	126'	126'	CTS
Fresh Water	13 3/8"	New	H-40	48#	760'	760'	713 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	2168'	2168'	909 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	23344'	23344'	Tal 441104 107 10444 10444
Tubing							
Liners							

Digitally signed by
Gayne Knitowski
Date: 2022.03.01
08:20:52 -0500

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"	0.352	3520	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/5% Excess
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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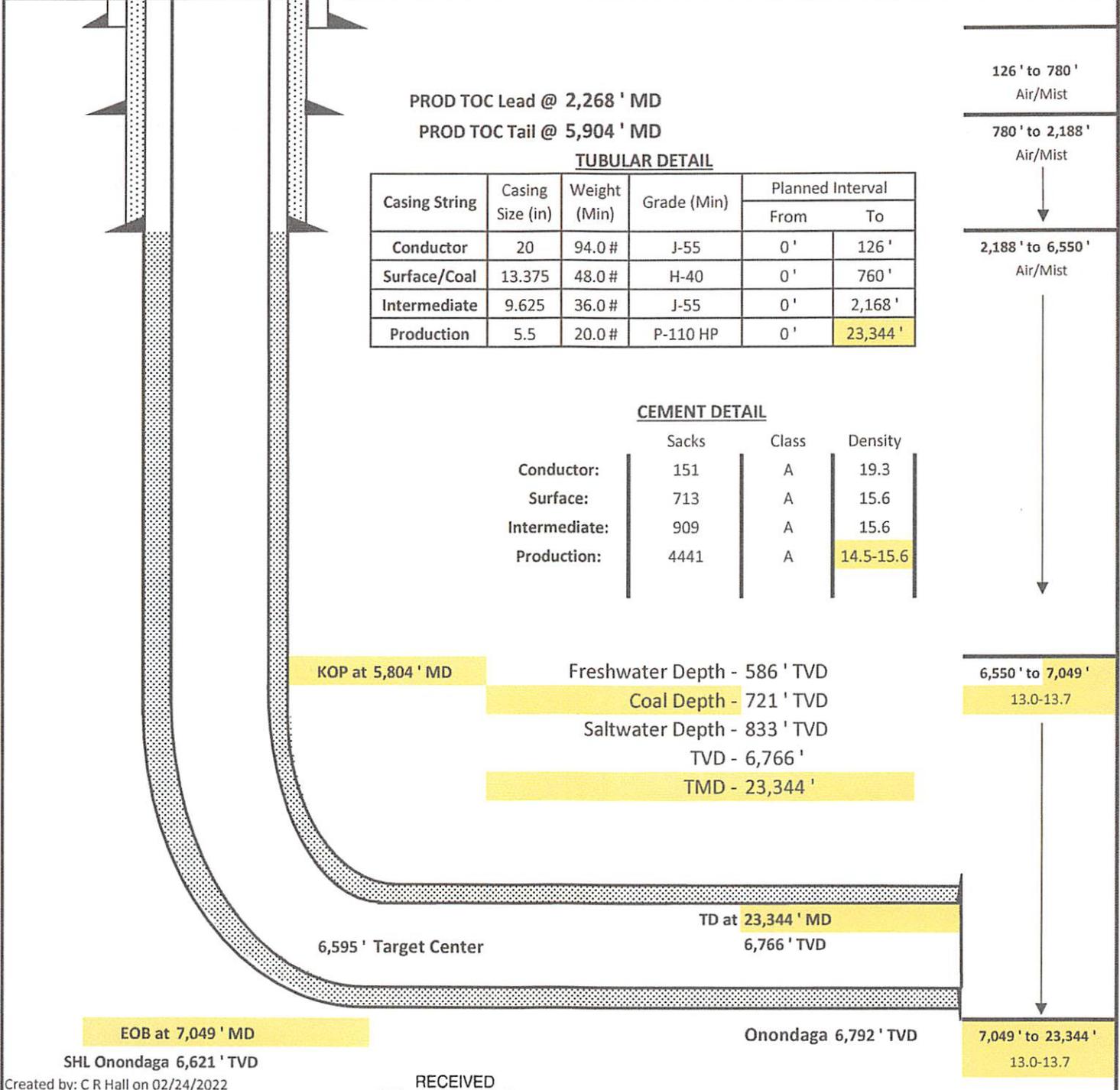
Page 2 of 3

WV Department of
Environmental Protection

03/11/2022

Southwestern Energy Company	Proposed Drilling Program
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Well: CARL ROTTER OHI 10 Field: PANHANDLE FIELD WET County: OHIO SHL: 40.1016 Latitude -80.5425 Longitude BHL: 40.0599 Latitude -80.5185 Longitude KB Elev: 1,362 ft MSL	Re-entry Rig: TBD Prospect: Marcellus Shale State: WV GL Elev: 1,336 ft MSL
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PROD TOC Lead @ 2,268 ' MD
 PROD TOC Tail @ 5,904 ' MD

TUBULAR DETAIL

Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	126'
Surface/Coal	13.375	48.0 #	H-40	0'	760'
Intermediate	9.625	36.0 #	J-55	0'	2,168'
Production	5.5	20.0 #	P-110 HP	0'	23,344'

CEMENT DETAIL

	Sacks	Class	Density
Conductor:	151	A	19.3
Surface:	713	A	15.6
Intermediate:	909	A	15.6
Production:	4441	A	14.5-15.6

KOP at 5,804 ' MD

Freshwater Depth - 586 ' TVD
 Coal Depth - 721 ' TVD
 Saltwater Depth - 833 ' TVD
 TVD - 6,766 '
 TMD - 23,344 '

EOB at 7,049 ' MD
 SHL Onondaga 6,621 ' TVD

Onondaga 6,792 ' TVD
 7,049 ' to 23,344 ' 13.0-13.7

Created by: C R Hall on 02/24/2022

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Digitally signed by
 Gayne Knitowski
 Date: 2022.03.01
 08:21:12 -05'00'

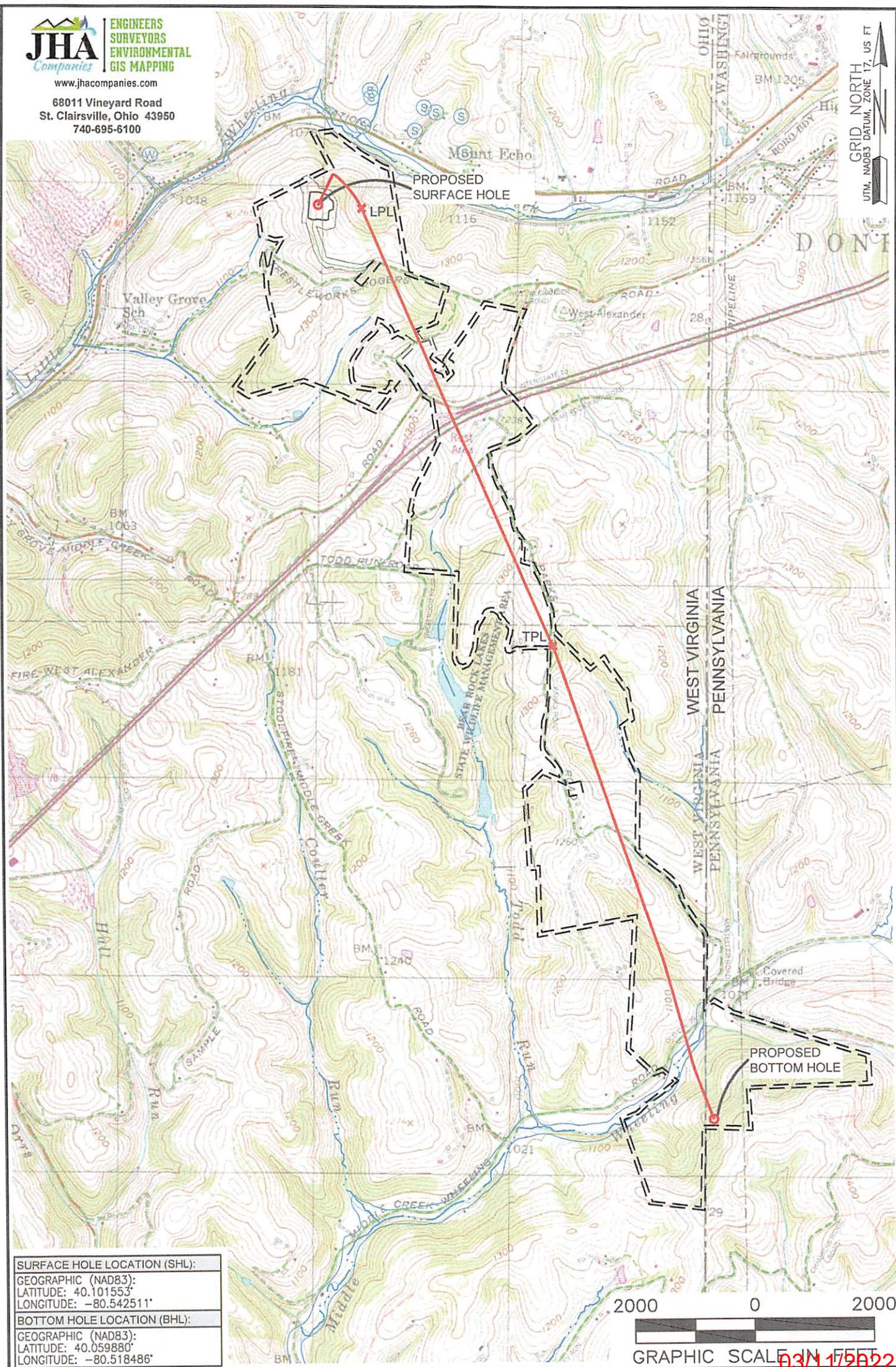
WV Department of
 Environmental Protection

03/11/2022

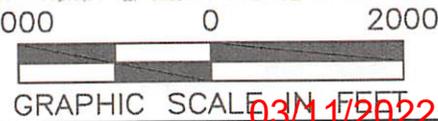


www.jhacompanies.com
 68011 Vineyard Road
 St. Clairsville, Ohio 43950
 740-695-6100

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



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.101553°
LONGITUDE: -80.542511°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.059880°
LONGITUDE: -80.518486°



03/11/2022

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

LEGEND:

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

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: CARL ROTTER OHI	WELL # 10H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY: OHIO	CODE: 9	DISTRICT: LIBERTY
SURFACE OWNER: CARL J. & GRACE A. ROTTER	USGS 7 1/2 QUADRANGLE MAP NAME: VALLEY GROVE, WV		

LATITUDE: 40°07'30" SURFACE HOLE (2000' SCALE) 305'

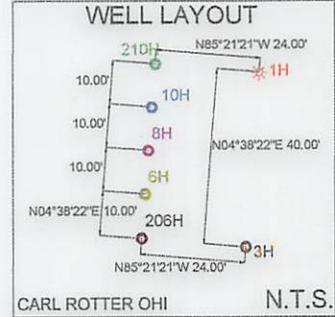
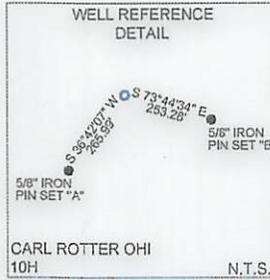
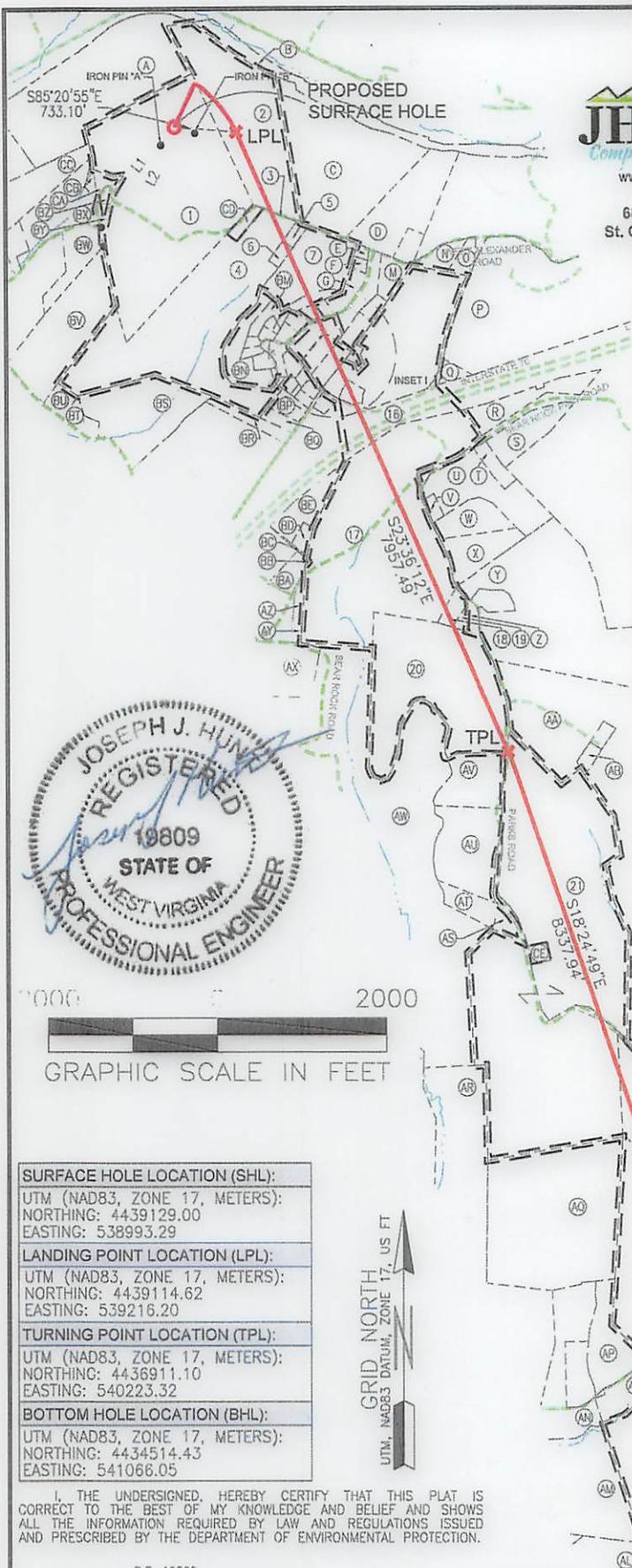
LATITUDE: 40°05'00" BOTTOM HOLE (2000' SCALE)



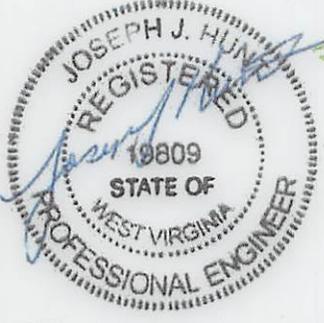
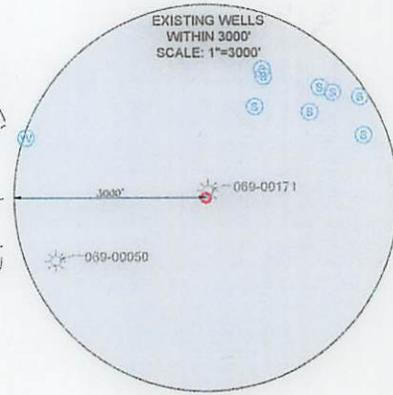
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

NOTES ON SURVEY

1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. 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.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD
5. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.



LINE	BEARING	DISTANCE
L1	S36°52'31"W	1452.98'
L2	S31°16'38"W	1629.07'



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4439129.00 EASTING: 538993.29
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4436911.62 EASTING: 539216.20
TURNING POINT LOCATION (TPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4436911.10 EASTING: 540223.32
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4434514.43 EASTING: 541066.05

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

P.E. 19809

COMPANY: **SWN** Production Company, LLC

WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	COMPANY: SWN OPERATOR'S WELL #: 10H API WELL #: 47 069 00328 H6A
	CARL ROTTER OHI STATE COUNTY PERMIT	ELEVATION: 1336.1' QUADRANGLE: VALLEY GROVE, WV ACREAGE: ±77.45 ACREAGE: ±77.45

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1336.1'

DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: VALLEY GROVE, WV

SURFACE OWNER: CARL J. & GRACE A. ROTTER ACREAGE: ±77.45

OIL & GAS ROYALTY OWNER: CARL J. & GRACE A. ROTTER ACREAGE: ±77.45

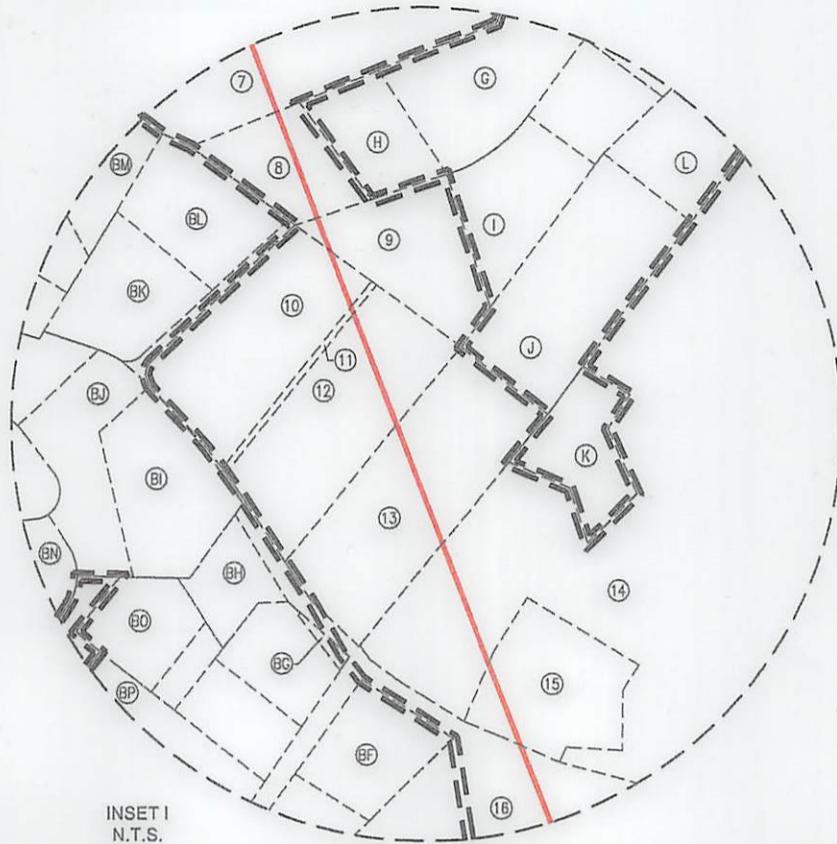
DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) **03/11/2022**

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,766' TVD 23,344' TMD

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

LEGEND: ● PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD LPL LANDING POINT LOCATION (W) EXISTING WATER WELL (S) EXISTING SPRING	— NATURAL WATERWAY — SURVEYED BOUNDARY = = = = LEASE BOUNDARY — PROPOSED PATH — PUBLIC ROAD	REVISIONS: DATE: 02-25-2022 API NO: 47-069-XXXX DRAWN BY: R. GRIMES SCALE: 1" = 2000' DRAWING NO: 2018-0153 WELL LOCATION PLAT
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INSET I
N.T.S.

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	ROTTER CARL J & GRACE A (S/R)	3-111-54
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
2	GRIFFITH SHARON & WARREN	3-111-60.1
3	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	REALTREE RD., FKA TRESTLEWORK ROGERS RD., AKA ROGERS ROAD
4	KLAGES LLOYD A JR.	3-111-46.1B
5	POWERS JEFFREY B	3-111-46.20
6	KLAGES PROPERTIES LLC	3-111-46.9
7	WOLEN JOHN J & MICHELLE L	3-111-46.11
8	TUNNEL RIDGE LLC	3-111-46.13
9	JSNE LLC (LOT 2)	3-111-46.8
10	KOSOL JOSEPH JOHN JR., & LAURA JEAN	3-111-48.4
11	TUNNEL RIDGE LLC	3-111-48.5
12	TUNNEL RIDGE LLC	3-111-48.2
13	TUNNEL RIDGE LLC	3-114-54
14	HALL ROBERT H. & LAURA L., HALL DAVID LEE & SANDRA SUE, PASCO THOMAS P. & MARY	3-115-1.1
15	WOOD BRENTON R & KELLY S	3-115-1.2
16	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	INTERSTATE 70
17	PAGENDARM PATRICIA M.	3-115-2.2
18	MORGAN SALLY A	3-115-2.4
19	MORGAN SALLY A	3-115-2.8
20	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	6-75-2
21	DAVIS JOHN RICHARD JR., DAVIS DEBRA L., DAVIS JOSEPH DAVID	6-710-1
22	HORR DONNIE L., BRIGGS KAREN L., HORR GLENN B.	6-710-4
23	HORR DONNIE L & MICHELLE	6-710-4.1
24	LEMMON JOSHUA, LEMMON MORGAN ASHLEY, LEMMON WADE LEE	6-710-10
25	MOORE THOMAS E	680-005-00-00-0002-00

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
X	ERNEST LAWRENCE F & DEBORAH K	3-115-4.1
Y	OLIVER LUCAS B	3-115-4
Z	JEWETT CLARENCE G AND TRACY	3-115-4.2
AA	TUNNEL RIDGE LLC	3-115-4.6
AB	TUNNEL RIDGE LLC	3-115-4.4
AC	BRIGGS KAREN LYNN & HENRY WILLIAM	6-710-4.2
AD	HORR DONNIE L & GLENN B & KAREN L BRIGGS,	680-005-00-00-0003-00
AE	HANCHER MATTHEW W,	680-005-00-00-0010-00
AF	DUNN WILLIAM C & SALLIE A,	680-005-00-00-0010-02
AG	BECK DONALD L SR & SANDRA E	680-005-00-00-0010-01
AH	SZAFRANEC ANDREW D	680-005-00-00-0014-03
AI	HAGAN DAVID E & CLAIRE M FAMILY TR DAVID E & CLAIRE M HAGAN TRUSTEES	680-005-00-00-0001-01
AJ	HAGAN DAVID E & CLAIRE M FAMILY TR DAVID E & CLAIRE M HAGAN TRUSTEES	680-005-00-00-0001-00
AK	ALDERMAN ROY M	6-710-11.4
AL	ALDERMAN ROY M	6-710-11.6
AM	KRUPINSKI MARK	6-710-5.6
AN	KRUPINSKI MARK D & JAN M	6-710-5
AO	ASHTON BETH A JACOBS DOUGLAS E	6-710-9
AP	RICHEY DONALD EDWARD JR RICHEY CHRISTINE	6-710-5.9
AQ	WINESBURG J. MICHAEL	6-710-5.4
AR	WILD LIFE LEAGUE OF OHIO CO	6-710-2
AS	DAVIS JOHN R JR & ADA I	6-75-6
AT	DAVIS JOHN RICHARD & ADA I	6-75-2.3
AU	DAVIS JOHN RICHARD JR. & ADA I	6-75-2.1
AV	GIVENS HERSCHEL L. & JONES DOROTHY S.	6-75-2.2
AW	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	6-75-1
AX	WEST VIRGINIA DEPT NAT RES	3-114-29
AY	NIETZEL EDWARD L	3-114-38
AZ	ERNEST KELLY MICHAEL	3-114-35
BA	ERNEST DEBORAH J	3-114-31.5
BB	ERNEST DEBORAH J	3-114-34
BC	TULLY JAMES M & VERONICA	3-114-31.1
BD	TULLY JAMES M	3-114-31.4
BE	TULLY JAMES M & VERONICA	3-114-31.2
BF	TUNNEL RIDGE, LLC	3-114-39
BG	NUNES ANDREW J	3-111-48.9
BH	MARKING JOHN E & TINA J	3-111-48.3
BI	OHIO RIVER COLLIERIES COMPANY (LOTS 1&2)	3-111-46.3
BJ	MOORE SCOTT E & LEAH (LOTS 3&5)	3-111-46.10
BK	TUNNEL RIDGE LLC	3-111-48.13
BL	TUNNEL RIDGE LLC	3-111-48.6
BM	TUNNEL RIDGE LLC (LOTS 21-23&25)	3-111-46.17
BN	HOMESTEAD FARMS LLC (LOTS 6-11&16-20)	3-111-46
BO	TUNNEL RIDGE, LLC	3-111-46.7
BP	HENDERSON DENNIS C & MURPHY PATRICIA A	3-114-53
BQ	TUNNEL RIDGE LLC	3-114-51
BR	TUNNEL RIDGE LLC	3-114-52.1
BS	DEAN LAWRENCE J II & JANET S	3-114-49
BT	WATSON GARY L	3-114-21
BU	HEINRICH EARNEST J. III & ANGELA R.	3-114-22
BV	WATSON GARY L	3-111-55.1
BW	WEASE DUANE L & RHONDA L	3-111-55.2
BX	DAVIS DONNA EVANS & WEASE RHONDA EVANS	3-111-49
BY	ROTTER C J & GRACE A	3-111-53
BZ	ROTTER C J & GRACE A	3-111-52
CA	DAVIS DONNA E & DANIEL R	3-111-50
CB	DAVIS DONNA EVANS & DANIEL R	3-111-49.2
CC	ROTTER CARL J & GRACE A	3-111-64
CD	SCHMIDT TODD R	3-111-46.22
CE	DAVIS DEBRA L	3-115-3

03/11/2022

REVISIONS:

COMPANY:			DATE: 02-25-2022
OPERATOR'S	CARL ROTTER OHI		API NO: 47-069-XXXXX
WELL #:	10H		DRAWN BY: R. GRIMES
DISTRICT:	COUNTY:	STATE:	SCALE: N/A
LIBERTY	OHIO	WV	DRAWING NO: 2018-0153
			WELL LOCATION PLAT

WW-6A1
(5/13)

Operator's Well No. Carl Rotter OHI 10H

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

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

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

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

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

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

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

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

Well Operator: SWN Production Company, LLC.
 By: *BOJH*
 Its: Senior Landman

RECEIVED
Office of Oil & Gas

MAR 04 2022

EXHIBIT "A"

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
 Carl Rotter OHI 10H
 Ohio County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1)	3-L11-54	Carl J. and Grace A. Rotter, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	791/16 885/248
2)	3-L11-60.1	Lloyd A. Klages and Bertha L. Klages, his wife	Great Lakes Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	778/278 808/521 883/515
3)	Realtree Rd FKA Trestlework Rogers Rd. AKA Rogers Road	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20.00%	986/226
4)	3-L11-46.18	Lloyd A. Klages and Bertha L. Klages, his wife	Great Lakes Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	778/278 808/521 883/515
5)	3-L11-46.20	Lloyd A. Klages and Bertha L. Klages, his wife	Great Lakes Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	778/278 808/521 883/515
6)	3-L11-46.9	Lloyd A. Klages and Bertha L. Klages, his wife	Great Lakes Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	778/278 808/521 883/515
7)	3-L11-46.11	Lloyd A. Klages and Bertha L. Klages, his wife	Great Lakes Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	778/278 808/521 883/515
8)	3-L11-46.13	Lloyd A. Klages and Bertha L. Klages, his wife	Great Lakes Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	778/278 808/521 883/515

4706900328

EXHIBIT "A"

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
 Carl Rotter OHI 10H
 Ohio County, West Virginia

9)	3-L11-46.8	Lloyd A. Klages and Bertha L. Klages, his wife	Great Lakes Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	778/278 808/521 883/515
10)	3-L11-48.4	Jonathan T. Greer and Stacy J. Greer, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	868/104 883/778
11)	3-L11-48.5	The Nancy A. Rasor Separate Property Trust Dated January 1, 2003, as Amended October 15, 2014	SWN Production Company, LLC	18.00%	990/573
12)	3-L11-48.2	Nancy A. Rasor Separate Property Trust dtd January 1, 2003, Amended October 15, 2014	SWN Production Company, LLC	18.00%	936/224
13)	3-L14-54	William R. White and Doris R. White, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	857/209 883/754
14)	3-L15-1.1	Frances L. Hall, a widow (Life Estate Interest), Robert H. Hall and Laura L. Hall, husband and wife (Remainder Interest), David Lee Hall and Sandra Sue Hall, husband and wife (Remainder Interest), Mary Pasco and Thomas P. Pasco, wife and husband (Remainder Interest)	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	817/638 885/548
15)	3-L15-1.2	Brenton R. Wood and Kelly S. Wood, husband and wife	SWN Production Company, LLC	16.00%	931/138
16)	170	Brenton R. Wood and Kelly S. Wood, husband and wife	SWN Production Company, LLC	16.00%	931/138
		Joseph F. Pagendarm and Patricia M. Pagendarm, husband and wife	TriEnergy, Inc. TriEnergy Holdings, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	788/687 791/171 798/653 885/272

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EXHIBIT "A"

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
 Carl Rotter OHI 10H
 Ohio County, West Virginia

17)	3-L15-2.2	Joseph F. Pagendarm and Patricia M. Pagendarm, husband and wife	TriEnergy, Inc. TriEnergy Holdings, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	788/687 791/171 798/653 885/272
18)	3-L15-2.4	Sally A. Morgan, single	American Petroleum Partners Operating, LLC SWN Production Company, LLC	19.00%	935/286 980/572
19)	3-L15-2.8	Sally A. Morgan, single	American Petroleum Partners Operating, LLC SWN Production Company, LLC	19.00%	935/286 980/572
20)	6-T5-2	State of West Virginia, Department of Commerce, Division of Natural Resources	SWN Production Company, LLC	15.00%	974/449
21)	6-T10-1	John Richard Davis Jr. and Ada I. Davis, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC	19.00%	936/149 980/572
		Debra L. Davis, a widow	American Petroleum Partners Operating, LLC SWN Production Company, LLC	19.00%	935/274 980/572
		Joseph David Davis and D'Arcy B. Davis, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC	19.00%	936/168 980/572

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EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Lease, No. 680-005-00-00-0002-00, By SWN Production Company, LLC, Operator
 Carl Rötter OH 111
 Ohio County, West Virginia

22)	6-T10-4	Patricia A. Clark, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	822/512 885/105
23)	6-T10-4.1	Donnie L. Horr and Michelle Horr, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC	19.00%	935/282 980/572
24)	6-T10-10	Joshua Owen Lemmon, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	846/591 885/416
		Morgan Ashley Lemmon, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	846/583 885/416
		Wade Lee Lemmon, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	846/587 885/416
25)	680-005-00-00-0002-00	Thomas E. Moore, single	Range Resources - Appalachia, LLC SWN Production Company, LLC	18.00%	201214008 201928636

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SWN Production Company, LLC
1300 Fort Pierpont Dr, Ste 201
Morgantown, WV 26508
Tel: 304 884 1610
Fax: 304 471 2497
www.swn.com

February 28, 2022

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

RE: SWN's proposed New Well: Carl Rotter OHI 10H in Ohio County, West Virginia, Drilling under Trestleworks Rogers Road, Interstate 70, Stoolfire-West Alexander Road, Bear Rock Road, Parks Road, Masteller Road, and Old CR.39.

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 Trestleworks Rogers Road, Interstate 70, Stoolfire-West Alexander Road, Bear Rock Road, Parks Road, Masteller Road, and Old CR.39. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Wilson".

Bradley Wilson
Senior Landman
SWN Production Company, LLC

A handwritten signature in red ink, appearing to read "R/A → V+".

The Right People doing the Right Things,
wisely investing the cash flow from our
underlying assets, will create value.®
03/11/2022

March 3, 2022

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

RE: Proposed Expedited Modification: Carl Rotter OHI 10H ⇒ 69-00328

Dear Mr. Brewer:

Enclosed please find the required documents to modify this well. We would like to extend the lateral. This well is situated on the Rotters's property, in Ohio County, West Virginia.

Enclosed you will find:

- 6B
- Updated WBD
- New Mylar
- New 6A1

RECEIVED
Office of Oil and Gas

MAR 4 2022

WV Department of
Environmental Protection

If you have any questions or desire additional information, please me at 304-884-1613

Thank you.

Sincerely,



Brittany Woody
Senior Regulatory Analyst
Southwestern Energy Production Company, LLC

CHK# 1063143
Amt \$5000
Date 1/11/22

$\frac{R^2}{A} \rightarrow V^+$



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Expedited Horizontal H6A Well Work Permit API: 47-069-00328)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Tue, Mar 8, 2022 at 11:21 AM

To: Brittany Woody <Brittany_Woody@swn.com>, liz_gee@swn.com, THOFFMAN@wvassessor.com, "Gayne J. Knitowski" <gayne.j.knitowski@wv.gov>

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

47-069-00328 - CARL ROTTER OHI 10H

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry
Environmental Resource Specialist 3
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 ext. 41115
(304) 926-0452 fax
Wade.A.Stansberry@wv.gov

2 attachments

 **47-069-00328 - mod.pdf**
2976K

 **IR-8 Blank.pdf**
228K

03/11/2022