

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

Thursday, May 27, 2021 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC **POST OFFICE BOX 12359**

SPRING, TX 773914954

Permit Modification Approval for CARL ROTTER OHI 210H

47-069-00331-00-00

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 210H

Farm Name: CARL J. & GRACE A. ROTTER

U.S. WELL NUMBER: 47-069-00331-00-00

Horizontal 6A New Drill

Date Modification Issued: 5/27/21

Promoting a healthy environment.

APINO. 47-0609- 00331 MOD

OPERATOR WELL NO. Carl Rotter OHI 210H
Well Pad Name: Carl Rotter OHI

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

1) Well Operator: SWN Produ	ction Co., LLC	494512924	069-Ohio	3-Liberty	648-Valley Grove
1) Well Operator.		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Ca		and the second s	Name: Carl F		
3) Farm Name/Surface Owner:	Carl J. & Grace A.	Rotter Public Roa	d Access: Rog	ers Road	
4) Elevation, current ground:	1336' E	levation, proposed	post-construction	on: 1336'	
5) Well Type (a) Gas x	Oil	Unde	erground Storag	ge	
Other					
(b)If Gas Sha	llow X	Deep			
	rizontal X	and the second section of the section of the second section of the section of the second section of the section of th			
6) Existing Pad: Yes or No Yes				()	
7) Proposed Target Formation(s Target Formation- Marcellus, Down-Dip well), Depth(s), Antic to the South, Target Top	cipated Thickness a	nd Expected Pi D- 6791', Anticipated T	ressure(s): hickness- 59', As	ssociated Pressure- 4414
8) Proposed Total Vertical Dept	h: <mark>6766'</mark>				
9) Formation at Total Vertical D	A 4	S			
10) Proposed Total Measured D	epth: 21522'				
11) Proposed Horizontal Leg Le	ength: 14,332.6	8			
12) Approximate Fresh Water S		586'			
13) Method to Determine Fresh	it offer to about.	Salinity Profile An			arby water well
14) Approximate Saltwater Dep	ths: 832' Salinit	y Profile analysis o	f Pottsville Sar	dstone	
15) Approximate Coal Seam De	pths: 721'				
16) Approximate Depth to Poss	ible Void (coal m	nine, karst, other):	Possible Void	721'	
17) Does Proposed well location directly overlying or adjacent to	n contain coal sea an active mine?	yes x	No)	
(a) If Yes, provide Mine Info:		nel Ridge			RECEIVED Gas
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Depth: 721			Offi	WAY 1 1 2021
	- AMERICAN CONTRACTOR	burgh			MAY 1 1 2022
	Owner: Tun	nel Ridge			Environmen

API NO. 47-089 - 00331 MOD

OPERATOR WELL NO. Carl Rotter OHI 210H
Well Pad Name: Carl Rotter OHI

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (1b/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'	755 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	21522'	21522'	Tail 3990sx/ 100' Inside Intermediate
Tubing							
Liners							

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ТҮРЕ	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			en la constitución de altrocophonistico effet de arcente con en el de arcente con el de arcente de arcente de a				
Liners							

PACKERS

Kind:	WED, Gas
Sizes:	Office of 1 2021
Depths Set:	MAY Mapartment of the Environmental Protection
	Wy coments Environments

WW-6B (10/14) API NO. 47-069 - 00 33 MOD

OPERATOR WELL NO. Carl Rotter OHI 210H

Well Pad Name: Carl Rotter OHI

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 unites, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 14
- 22) Area to be disturbed for well pad only, less access road (acres): 9
- 23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

24) Describe all cement additives associated with each cement type:

See Attachment ***

25) Proposed borehole conditioning procedures:

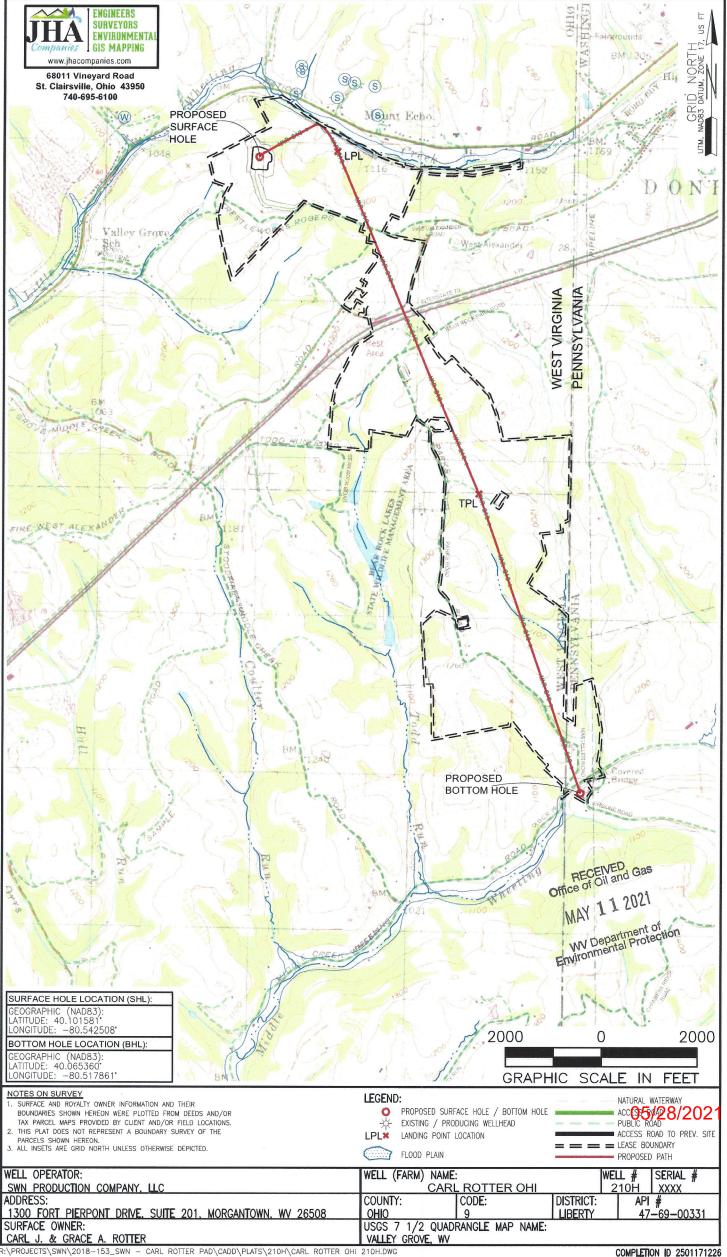
All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

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*Note: Attach additional sheets as needed.

Proposed Drilling Program Southwestern Energy Company TBD Re-entry Rig: Well: **CARL ROTTER OHI 210 Marcellus Shale** Prospect: PANHANDLE FIELD \ Field: WV State: OHIO County: -80.5424 Longitude 40.1015 Latitude SHL: -80.5187 Longitude 40.0680 Latitude BHL: 1,336 ft MSL GL Elev: KB: 26 ft AGL 1,362 ft MSL **KB Elev:** Coal Seam at 721' 126' to 780' Air/Mist PROD TOC Lead @ 2,268 'MD 780' to 2,188' PROD TOC Tail @ 5,911 'MD Air/Mist **TUBULAR DETAIL** Planned Interval Casing Weight Grade (Min) **Casing String** From To Size (in) (Min) 2.188 'to 6,020 ' 126' 0 ' J-55 94.0 # 20 Conductor Air/Mist H-40 0' 760' 48.0# Surface/Coal 13.375 0' 2,168 ' 9,625 36.0 # J-55 Intermediate 0' 21,522 ' 20.0# P-110 HP Production 5.5 **CEMENT DETAIL** Density Class Sacks 151 19.3 Conductor: 15.6 713 A Surface: 15.6 Intermediate: 755 A 14.5-15.6 Production: 3990 A Freshwater Depth - 586 'TVD 6,020 'to 7,188' KOP at 6,020 'MD 12.0-12.5 ppg Coal Void Depth - 721 'TVD Saltwater Depth - 832' TVD TVD - 6,766 ' TMD - 21,522 ' TD at 21,522 ' MD 6,766 'TVD 6,603 ' Target Center TVD 7,188 'to 21,522 ' Onondaga 6,791 'TVD EOB at 7,188 'MD 12.3-12.5 ppg SHL Onondaga 6,628 'TVD Created by: Matt Weems on 04/19/2021



	WELL BORE TABLE FOR SURFACE/ROYALTY OW	INCINO
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	GRIFFITH SHARON & WARREN	3-L11-60.1
3	TUNNEL RIDGE LLC	3-L12-32
4	WATKINS THERESA & MARK	3-L11-60
5	TUNNEL RIDGE LLC	3-L12-25
	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION,	REALTREE RD., FKA TRESTLEWORK ROGERS
6	DIVISION OF HIGHWAYS	RD., AKA ROGERS ROAD
7	JSNE LLC	3-L11-46.8
8	TUNNEL RIDGE LLC	3-L11-46.16
9	KLAGES LLOYD A JR & AMY	3-L12-30
10	HALL ROBERT H. & LAURA L., HALL DAVID LEE & SANDRA SUE, PASCO THOMAS P. & MARY	3-L15-1.1
11	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	INTERSTATE 70
12	PAGENDARM JOS F & P M	3-L15-2.2
13	BERGHOFF GERALD W	3-L15-2.6
14	ERNEST LAWRENCE F & DEBORAH	3-L15-3
	ERNEST LAWRENCE F & DEBORAH K	3-L15-4.1
15	OLIVER LUCAS B	3-L15-4
16		3-L15-4.6
17	TUNNEL RIDGE LLC	3-L15-4.4
18	TUNNEL RIDGE LLC DAVIS JOHN RICHARD JR, DAVIS DEBRA L,	
19	DAVIS JOSEPH DAVID	6-T10-1
20	BRIGGS KAREN LYNN & HENRY WILLIAM	6-T10-4.2
21	HORR DONNIE L, BRIGGS KAREN L, HORR GLENN B	6-T10-4
22	HORR DONNIE L, BRIGGS KAREN L, HORR GLENN B	680-005-00-00-0003-00
23	HANCHER MATTHEW W	680-005-00-00-0010-00
	ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER	TAX PARCEL
А	NOLAN JOHN A JR	3-L11-61
В	NOLAN JOHN A JR	3-L11-66
С	NOLAN JOHN A JR	3-L11-63
D	MAZGAJ MILDRED J	3-L11-62
D F	MAZGAJ MILDRED J	3-L11-62 3-L11-67
Е	MAZGAJ MILDRED J	3-L11-67
E F	MAZGAJ MILDRED J FORDYCE TERRY L	3-L11-67 3-L12-23
E F G	MAZGAJ MILDRED J FORDYCE TERRY L FORDYCE SHAUN LEMOINE & JASON ERIC	3-L11-67 3-L12-23 3-L12-24
E F G H	MAZGAJ MILDRED J FORDYCE TERRY L FORDYCE SHAUN LEMOINE & JASON ERIC GOUDY JUDITH A TRUSTEE JUDITH A GOUDY TRUST	3-L11-67 3-L12-23 3-L12-24 3-L12-29
E F G H	MAZGAJ MILDRED J FORDYCE TERRY L FORDYCE SHAUN LEMOINE & JASON ERIC GOUDY JUDITH A TRUSTEE JUDITH A GOUDY TRUST PLOCK DOUGLAS J & CHRISTINE M	3-L11-67 3-L12-23 3-L12-24 3-L12-29 3-L12-28
E F G H	MAZGAJ MILDRED J FORDYCE TERRY L FORDYCE SHAUN LEMOINE & JASON ERIC GOUDY JUDITH A TRUSTEE JUDITH A GOUDY TRUST PLOCK DOUGLAS J & CHRISTINE M McCAVE SCOTT C	3-L11-67 3-L12-23 3-L12-24 3-L12-29 3-L12-28 3-L12-10.3
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E F G H I J K L M N O P Q R S T U V	MAZGAJ MILDRED J FORDYCE TERRY L FORDYCE SHAUN LEMOINE & JASON ERIC GOUDY JUDITH A TRUSTEE JUDITH A GOUDY TRUST PLOCK DOUGLAS J & CHRISTINE M McCAVE SCOTT C G W RENTALS LLC WHEELING COIN LLC SHRIVER DANIEL L JR & CHRISTINA E ONEIL MICHELE ONEIL MICHELE FRYE RICHARD L SHRIVER DANIEL L & GOLDIE ANN SHRIVER DANIEL L JR & GOLDIE ANN SHRIVER DANIEL L JR & GOLDIE MCFARLAND DENNIS E & BRIS NANCY M TUNNEL RIDGE LLC KLAGES LLOYD A JR ENGLISH MARGARET B	3-L11-67 3-L12-23 3-L12-24 3-L12-29 3-L12-10.3 3-L12-10.7 3-L12-10.5 3-L12-10.4 3-L12-11 3-L12-31 3-L12-21 3-L12-21 3-L12-21 3-L12-21 3-L12-21 3-L12-21 3-L12-22 3-L12-25.1 3-L12-25.2 3-L12-25.3
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E F G H I J K L M N O P Q R S T U V W X Y Z AA	MAZGAJ MILDRED J FORDYCE TERRY L FORDYCE SHAUN LEMOINE & JASON ERIC GOUDY JUDITH A TRUSTEE JUDITH A GOUDY TRUST PLOCK DOUGLAS J & CHRISTINE M McCAVE SCOTT C G W RENTALS LLC WHEELING COIN LLC SHRIVER DANIEL L JR & CHRISTINA E ONEIL MICHELE ONEIL MICHELE FRYE RICHARD L SHRIVER DANIEL L & GOLDIE ANN SHRIVER DANIEL L JR & GOLDIE ANN SHRIVER DANIEL L JR & GOLDIE ANN SHRIVER DANIEL L & GOLDIE MCFARLAND DENNIS E & BRIS NANCY M TUNNEL RIDGE LLC KLAGES LLOYD A JR ENGLISH MARGARET B TUNNEL RIDGE LLC TUNNEL RIDGE LLC TRIPLE P LLC	3-L11-67 3-L12-23 3-L12-24 3-L12-29 3-L12-28 3-L12-10.3 3-L12-10.7 3-L12-10.5 3-L12-10.4 3-L12-11 3-L12-31 3-L12-15 3-L12-21 3-L12-21 3-L12-21.5 3-L12-21.3 3-L12-22 3-L12-25.1 3-L12-25.2 3-L12-25.3 3-L12-18.1 3-L12-18.2
E F G H I J K L M N O P Q R S T U V W X Y Z AAA AB	MAZGAJ MILDRED J FORDYCE TERRY L FORDYCE SHAUN LEMOINE & JASON ERIC GOUDY JUDITH A TRUSTEE JUDITH A GOUDY TRUST PLOCK DOUGLAS J & CHRISTINE M McCAVE SCOTT C G W RENTALS LLC WHEELING COIN LLC SHRIVER DANIEL L JR & CHRISTINA E ONEIL MICHELE ONEIL MICHELE FRYE RICHARD L SHRIVER DANIEL L & GOLDIE ANN SHRIVER DANIEL L JR & GOLDIE ANN SHRIVER DANIEL L & GOLDIE ANN SHRIVER DANIEL L & GOLDIE MCFARLAND DENNIS E & BRIS NANCY M TUNNEL RIDGE LLC KLAGES LLOYD A JR ENGLISH MARGARET B TUNNEL RIDGE LLC TUNNEL RIDGE LLC TRIPLE P LLC	3-L11-67 3-L12-23 3-L12-24 3-L12-29 3-L12-28 3-L12-10.3 3-L12-10.7 3-L12-10.5 3-L12-10.4 3-L12-11 3-L12-31 3-L12-15 3-L12-21 3-L12-21 3-L12-21.3 3-L12-22 3-L12-25.1 3-L12-25.2 3-L12-25.3 3-L12-18.1 3-L12-18.2 3-L12-18.3
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E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE	MAZGAJ MILDRED J FORDYCE TERRY L FORDYCE SHAUN LEMOINE & JASON ERIC GOUDY JUDITH A TRUSTEE JUDITH A GOUDY TRUST PLOCK DOUGLAS J & CHRISTINE M McCAVE SCOTT C G W RENTALS LLC WHEELING COIN LLC SHRIVER DANIEL L JR & CHRISTINA E ONEIL MICHELE ONEIL MICHELE ONEIL MICHELE FRYE RICHARD L & GOLDIE ANN SHRIVER DANIEL L JR & GOLDIE ANN SHRIVER DANIEL L JR & GOLDIE ANN SHRIVER DANIEL L & GOLDIE ANN SHRIVER DANIEL L & GOLDIE MCFARLAND DENNIS E & BRIS NANCY M TUNNEL RIDGE LLC KLAGES LLOYD A JR ENGLISH MARGARET B TUNNEL RIDGE LLC TRIPLE P LLC TRIPLE P LLC TURNER FRANCES A TRIPLE P LLC TRIPLE P LLC	3-L11-67 3-L12-23 3-L12-24 3-L12-29 3-L12-28 3-L12-10.3 3-L12-10.7 3-L12-10.5 3-L12-10.4 3-L12-11 3-L12-31 3-L12-15 3-L12-21 3-L12-21 3-L12-21.5 3-L12-21.3 3-L12-22 3-L12-25.1 3-L12-25.2 3-L12-25.3 3-L12-18.1 3-L12-18.3 3-L12-18.3 3-L12-18.3 3-L12-18.6 3-L12-18.9
E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD	MAZGAJ MILDRED J FORDYCE TERRY L FORDYCE SHAUN LEMOINE & JASON ERIC GOUDY JUDITH A TRUSTEE JUDITH A GOUDY TRUST PLOCK DOUGLAS J & CHRISTINE M McCAVE SCOTT C G W RENTALS LLC WHEELING COIN LLC SHRIVER DANIEL L JR & CHRISTINA E ONEIL MICHELE ONEIL MICHELE ONEIL MICHELE FRYE RICHARD L & GOLDIE ANN SHRIVER DANIEL L JR & GOLDIE ANN SHRIVER DANIEL L JR & GOLDIE ANN SHRIVER DANIEL L & GOLDIE ANN SHRIVER DANIEL L & GOLDIE MCFARLAND DENNIS E & BRIS NANCY M TUNNEL RIDGE LLC KLAGES LLOYD A JR ENGLISH MARGARET B TUNNEL RIDGE LLC TUNNEL RIDGE LLC TRIPLE P LLC TRIPLE P LLC TURNER FRANCES A TRIPLE P LLC	3-L11-67 3-L12-23 3-L12-24 3-L12-29 3-L12-10.3 3-L12-10.7 3-L12-10.5 3-L12-10.4 3-L12-11 3-L12-31 3-L12-15 3-L12-21

	ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER	TAX PARCEL
Al	MOORE HEIDI L & BENJAMIN R	230-006-00-00-0010-00
AJ	GREAVES THOMAS & MARTHA,	230-006-00-00-0012-03
AK	BRIGGS KAREN LYNN	680-005-00-00-0003-03
AL	GREAVES THOMAS & MARTHA	680-005-00-00-0004-02
AM	DUNN WILLIAM C & SALLIE A	680-005-00-00-0004-0
AN	DUNN WILLIAM C & SALLIE A	680-005-00-00-0010-0
AO	HANCHER MATTHEW W & KELLY	680-005-00-00-0010-0
AQ	MOORE THOMAS E	680-005-00-00-0002-0
AR	HORR DONNIE L & MICHELLE	6-T10-4.1
AS	WINESBURG MICHAEL J	6-T10-5.4
AT	WILD LIFE LEAGUE OF OHIO CO	6-T10-2
AU	CONSERVATION COMM OF W VA	6-T5-1
AV	DAVIS JOHN RICHARD & ADA I	6-T5-2.3
	DAVIS JOHN RICHARD JR & ADA I	6-T5-6
AW	DAVIS JOHN MICHARIO JIL & ADA I	6-T5-5
AY	DAVIS JOHN R & ADA I	6-T5-2.1
AZ	GIVENS HERSCHEL L & JONES DORTHY S	6-T5-2.2
	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	6-T5-2
BA BB	JEWETT CLARENCE G AND TRACY	3-L15-4.2
-	OLIVER LUCAS B C/O MCCAMIC JEFF	3-L15-4.5
CI	MORGAN SALLY A	3-L15-2.4
BC	NIETZELT EDWARD L	3-L14-38
BD	ERNEST KELLY MICHAEL	3-L14-35
BE		3-L14-31.5
BF	ERNEST DEBORAH J ERNEST DEBORAH J	3-L14-34
BG		3-L14-31.1
ВН	TULLY JAMES M & VERONICA	3-L14-31.4
BI	TULLY JAMES M	3-L14-31.2
BJ	TULLY JAMES M & VERONICA	3-L15-1.2
BK	WOOD BRENTON R & KELLY S TUNNEL RIDGE LLC	3-L14-39
BL		3-L11-48.9
BM	NUNES ANDREW J	3-L14-54
BN	TUNNEL RIDGE LLC	3-L15-7
ВО	HALL ROBERT H & LAURA L	3-L11-48.1
BP	HALL ROBERT H & LAURA L	3-L11-48.10
BQ	KLAGES LLOYD A JR & AMY	3-L11-46.14
BR	TUNNEL RIDGE LLC	3-L11-46.15
BS	TUNNEL RIDGE LLC	3-L11-46.8
CJ	JSNE LLC	3-L11-46.2
BT	TUNNEL RIDGE LLC	3-L11-46.11
BU	WOLEN JOHN J & MICHELLE L	3-L11-46.11 3-L11-46.20
BV	POWERS JEFFREY B	
BW	KLAGES LLOYD A JR	3-L11-46.18
ВХ	SCHMIDT TODD R	3-L11-46.22 3-L11-55.1
BY	WATSON GARY L & RUSE	
BZ	WEASE DUANE L & RHONDA L	3-L11-55.2
CA	ROTTER C J & GRACE A	3-L11-53
СВ	ROTTER C J & GRACE A	3-L11-52
CC	DAVIS DONNA E & DANIEL R	3-111-50
CD	DAVIS DONNA EVANS & DANIEL R	3-L11-49.2
CE	DAVIS DONNA EVANS & WEASE RHONDA EVANS	3-L11-49
CF	ROTTER CARL J & GRACE A	3-L11-64
CG	GYEKIS ROBERT J & VICKI L	3-L15-2.3
CH	TUNNEL RIDGE LLC	3-L15-4.3

REVISIONS:	COMPANY:	COMPANY: Production Company, LLC		SW Production Company™	
	OPERATOR'S WELL #:	CARL ROTTER OHI 210H		DATE: 04-29-2021 API NO: 47-069-00331 DRAWN BY:R. GRIMES	
	DISTRICT: LIBERTY	COUNTY: OHIO	STATE: WV	SCALE: N/A DRAWING NO:2018-0153 WELL LOCATION PLAT	

WW-6A1 (5/13) Operator's Well No. Carl Rotter OHI 210H

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 I 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
Numoci		ο Exhibit Λ		

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

office of Oil and Gas

MAY 1 1 2021

WV Department of Environmental Protection

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

Well Operator:	SWN Production Co., LLC	And Wader
Ву:		Gavin Nadeau
Its:		Landman
113.		Dandinan

Page 1 of

EXHIBIT "A"

Carl Rotter OHI 210H

Ohio County, West Virginia

Washington County, West Virginia

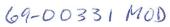
Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PC
1)	03-0L11-0054-0000	Carl J. Rotter and Grace A. Rotter, husband and wife	Chesapeake Appalachia, L.L.C.	12.50%	791/16
			SWN Production Company, LLC		885/24
2)	03-0L11-0060-0001	Lloyd A. Klages and Bertha L. Klages, husband and wife	Great Lakes Energy Partners, L.L.C	12.50%	778/27
			Chesapeake Appalachia, L.L.C.		808/52
2)	02.07.12.0022.0000		SWN Production Company, LLC		883/51
3)	03-0L12-0032-0000	Tunnel Ridge, LLC	Chesapeake Appalachia, L.L.C.	16.75%	865/67
45	02.07.11.0000.0000	TI IA PE	SWN Production Company, LLC		883/77
4)	03-0L11-0060-0000	Lloyd A. Klages and Bertha L. Klages, husband and wife	Great Lakes Energy Partners, L.L.C	12.50%	778/27
			Chesapeake Appalachia, L.L.C.		808/52
5)	03-0L12-0025-0000	TI IA VI	SWN Production Company, LLC		883/51
3)	03-0L12-0025-0000	Lloyd A. Klages and Bertha L. Klages, husband and wife	Great Lakes Energy Partners, L.L.C	12.50%	778/278
			Chesapeake Appalachia, L.L.C.		808/52
6)	REALTREE RD F/K/A	Wast Virginia Department of Transportation Division Carrie	SWN Production Company, LLC		883/51:
0)	TRESTLEWORK ROGERS RD A/K/A ROGERS RD	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20.00%	994/781
7)	03-0L11-0046-0008	Lloyd A. Klages and Bertha L. Klages, husband and wife	Great Lakes Energy Partners, L.L.C	12.50%	778/27
			Chesapeake Appalachia, L.L.C.	12.3070	808/521
			SWN Production Company, LLC		883/515
8)	03-0L11-0046-0016	Lloyd A. Klages and Bertha L. Klages, husband and wife	Great Lakes Energy Partners, L.L.C	12.50%	778/278
		•	Chesapeake Appalachia, L.L.C.	12.5070	808/521
			SWN Production Company, LLC		883/515
9)	03-0L12-0030-0000	Lloyd A. Klages Jr. and Amy Klages, Husband and Wife	Chesapeake Appalachia, L.L.C.	17.00%	878/554
**********			SWN Production Company, LLC		895/498
10)	03-0L15-0001-0001	Frances, L. Hall, 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), and Mary Pasco and Thomas P. Pasco, wife and husband (Remainder interest)	Chesapeake Appalachia, L.L.C.	18.00%	817/638
			SWN Production Company, LLC		885/548
11)	170	Frances, L. Hall, 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), and Mary Pasco and Thomas P. Pasco, wife and husband (Remainder interest)	Chesapeake Appalachia, L.L.C.	18.00%	817/638
			SWN Production Company, LLC		885/548
		Joseph F. Pagendarm and Patricia M. Pagendarm, his wife	TriEnergy, Inc.	12.50%	
			TriEnergy Holdings, LLC	12.30%	788/687
			Chesapeake Appalachia, L.L.C.		791/171
			SWN Production Company, LLC		798/653 885/272
2)	03-0L15-0002-0002	Joseph F. Pagendarm and Patricia M. Pagendarm, his wife	TriEnergy, Inc.	12.50%	788/687
			TriEnergy Holdings, LLC	12.3070	791/171
			Chesapeake Appalachia, L.L.C.		798/653
***********			SWN Production Company, LLC		885/272
3)	03-0L15-0002-0006	Gerald W. Berghoff and Bonnie D. Berghoff, husband and wife	SWN Production Company, LLC	18.00%	977/76
4)	03-0L15-0003-0000	Lawrence F. Ernest and Deborah K. Ernest, husband and wife	American Petroleum Partners Operating, LLC	19.00%	935/290
			SWN Production Company, LLC		980/572
5)	03-0L15-0004-0001	Lawrence F. Ernest and Deborah K. Ernest, husband and wife	American Petroleum Partners Operating, LLC	19.00%	935/290
-			SWN Production Company, LLC		980/572
6)	03-0L15-0004-0000	Lucas B. Oliver, married, and Jeffrey W. McCamic, Attorney-in-Fact for Jacob S. Oliver McCamic, single	Great Lakes Energy Partners, L.L.C.	12.50%	777/589
			Chesapeake Appalachia, L.L.C.		808/521
7)	03-0L15-0004-0006	Tuese P. Oliver moved and Informati M. C	SWN Production Company, LLC		883/515
"	03-0213-0004-0000	Lucas B. Oliver, married, and Jeffrey W. McCamic, Attorney-in-Fact for Jacob S. Oliver McCamic, single	Great Lakes Energy Partners, L.L.C.	12.50%	777/589
			Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		808/521 883/515
8)	03-0L15-0004-0004	Lucas B. Oliver, married, and Jeffrey W. McCamic, Attorney-in-Fact for Jacob S. Oliver McCamic, single	Great Lakes Energy Partners, L.L.C.	12.50%	777/589
		,	Chesapeake Appalachia, L.L.C.		808/521
			SWN Production Company, LLC		
9)	06-0T10-0001-0000	John Richard Davis Jr. and Ada I. Davis, husband and wife		10.0007	883/515
		The state of the s	American Petroleum Partners Operating, LLC	19.00%	936/149
		Debra L. Davis, a widow	SWN Production Company, LLC	*******	980/572
		y w mayor	American Petroleum Partners Operating, LLC	19.00%	935/274
		Joseph David Davis and D'Arcy B. Davis, husband and wife	SWN Production Company, LLC	10.000	980/572
		Land of the Park, masonina and wife	American Petroleum Partners Operating, LLC	19.00%	936/168
))	06-0T10-0004-0002	Karen Lynn Briggs, a married woman dealing in her sole and separate property	SWN Production Company, LLC	10.000	980/572
			Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	822/401
)	06-0T10-0004-0000	Patricia A. Clark, a single woman		10 000/	885/105
,	1000000 three 00 20 50 000000	,	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	822/512
.,			SWIN FIGUREION COMPANY, LLC		885/105
	680-005-00-00-0003-00	Patricia Ann Clark, single		19 0007 ~	01201722
2)	680-005-00-00-0003-00	Patricia Ann Clark, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		01201619 01442022

END OF EXHIBIT "A"

RECEIVED Office of Oil and Gas

MAY 1 1 2021





SWN Production Company, LLC

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

CK # 000 1055786 \$ 5,000, 00

May 10, 2021

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

RE: Proposed Modification: Carl Rotter OHI 210H

Dear Mr. Brewer:

Enclosed please find the required documents to modify this well. We are wanting to extend the lateral. This well is situated on the Rotter's property, in Liberty District, Ohio County, West Virginia.

Enclosed you will find:

-6B

-Updated WBD

-Mylar plat

-New 6A1

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

Thank you.

Sincerely,

Brittany Woody

Buttary Mody

Senior Regulatory Analyst

Southwestern Energy Production Company, LLC

Office of Oil and Gas

MAY 1 1 2021

WV Department of Environmental Protection





SWN Production Company, LLC 1300 Fort Pierpont Dr. Ste 201 Morgantown, WV 26508

Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

January 14, 2020

Ms. Laura Adkins WV DEP Office of Oil & Gas 601 57th St., SE Charleston, WV 25304

RE: SWN's proposed New Well: Carl Rotter OHI 210H in Ohio County, West Virginia, Drilling under Trestleworks Rogers Road, Interstate 70, Stoolfire-West Alexander Road, Bear Rock Road, and Masteller Road.

Dear Ms. Adkins:

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, and Masteller Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the abovereferenced well and unit.

Thank you.

Sincerely,

Bradley Wilson

Senior Landman

SWN Production Company, LLC

RECEIVED Office of Oil and Gas

MAY 1 1 2021

WW Department of Environmental Protection

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





swn Production Company, LLC 1300 Fort Pierpont Dr, Ste 201

Morgantown, WV 26508
Tel: 304 884 1610
Fax: 304 471 2497
www.swn.com

May 10, 2021

Ms. Laura Adkins Office of Oil & Gas 601 57th Street Charleston, WV 25304

RE: Proposed New Well: Carl Rotter OHI 210H

Dear Ms. Adkins

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on the Rotter's property, in Liberty District, Ohio County, West Virginia.

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

Thank you.

Sincerely,

Brittany Woody

Grittany Noody

Senior Regulatory Analyst

Southwestern Energy Production Company, LLC

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