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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)

Wednesday, January 24, 2024  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC  
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit Modification Approval for William Rodgers OHI 6H  
47-069-00365-00-00

Lateral Changes/ Casing Changes

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: William Rodgers OHI 6H  
Farm Name: Douglas W Rogers  
U.S. WELL NUMBER: 47-069-00365-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 01/24/2024

Promoting a healthy environment.

02/23/2024

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

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

2) Operator's Well Number: William Rodgers OHI 6H Well Pad Name: William Rodgers

3) Farm Name/Surface Owner: Douglas W. Rodgers Public Road Access: Rt. 40

4) Elevation, current ground: 1279' Elevation, proposed post-construction: 1279'

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, Well to the South, Target Top TVD- 6498', Target Base TVD- 6550', Anticipated Thickness- 52', Associated Pressure- 4258

8) Proposed Total Vertical Depth: 6537'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 20,910

11) Proposed Horizontal Leg Length: 10944.96

12) Approximate Fresh Water Strata Depths: 334'

13) Method to Determine Fresh Water Depths: Nearby Well William Rodgers OHI 5H API 47-069-00200

14) Approximate Saltwater Depths: 1189' Salinity Profile

15) Approximate Coal Seam Depths: 683'

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: \_\_\_\_\_

*Strader Gower*

1/22/2024

18) **CASING AND TUBING PROGRAM**

<b>TYPE</b>	<b>Size (in)</b>	<b>New or Used</b>	<b>Grade</b>	<b>Weight per ft. (lb/ft)</b>	<b>FOOTAGE: For Drilling (ft)</b>	<b>INTERVALS: Left in Well (ft)</b>	<b>CEMENT: Fill-up (Cu. Ft.)/CTS</b>
Conductor	20"	New	J-55	94#	136'	136'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	384'	384'	436 sx/CTS
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J-55	36#	2092'	2092'	851 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	20910'	20910'	Tail 3817sx/ 100' Inside Intermediate
Tubing							
Liners							

<b>TYPE</b>	<b>Size (in)</b>	<b>Wellbore Diameter (in)</b>	<b>Wall Thickness (in)</b>	<b>Burst Pressure (psi)</b>	<b>Anticipated Max. Internal Pressure (psi)</b>	<b>Cement Type</b>	<b>Cement Yield (cu. ft./k)</b>
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.330	1730	633	Class A	1.20/30% Excess
Coal	See	Interm	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	1.19/10-15% Excess
Tubing							
Liners							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

*Strader Gower*  
1/22/2024

# Southwestern Energy Company

# Proposed Drilling Program



**Well:** WILLIAM RODGERS OHI 6H  
**Field:** PANHANDLE FIELD WET  
**County:** OHIO  
**SHL (NAD83):** 40.106969 Latitude -80.532255 Longitude  
**BHL (NAD83):** 40.068895 Latitude -80.516511 Longitude  
**KB Elev:** 1,305 ft MSL **KB Height:** 26 ft AGL

**Drilling Rig:** SDC 41  
**Formation:** Marcellus Shale  
**State:** WV  
**GL Elev:** 1,279 ft MSL

NO COAL VOID EXPECTED

PROD TOC @ 2,092' MD

TUBULAR DETAIL					
Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	136'
Surface	13.375	54.4 #	J-55	0'	384'
Intermediate/Coal	9.625	36.0 #	J-55	0'	2,092'
Production	5.5	20.0 #	P-110 HP	0'	20,910'

**CEMENT DETAIL**

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	436	A/L	15.6
Intermediate	851	A/L	15.6
Production	3817	A/L	14.5-15.0

136' to 404'

Air/Mist

404' to 2,112'

Air/Mist

2,112' to 5,955'

Air/Mist

TD at 5,955'

5,955' to 6,950'

12.0-12.5 ppg

6,950' to 20,910'

12.5-13.5 ppg

KOP at 5,955' MD

Freshwater Depth - 334' TVD

Coal Depth - 683' TVD

Saltwater Depth - 1,189' TVD

TVD - 6,537'

TMD - 20,910'

6,537' TVD Target Center

TD at 20,910' MD

6,537' TVD

LP at 6,950' MD

SHL Onondaga 6,551' TVD

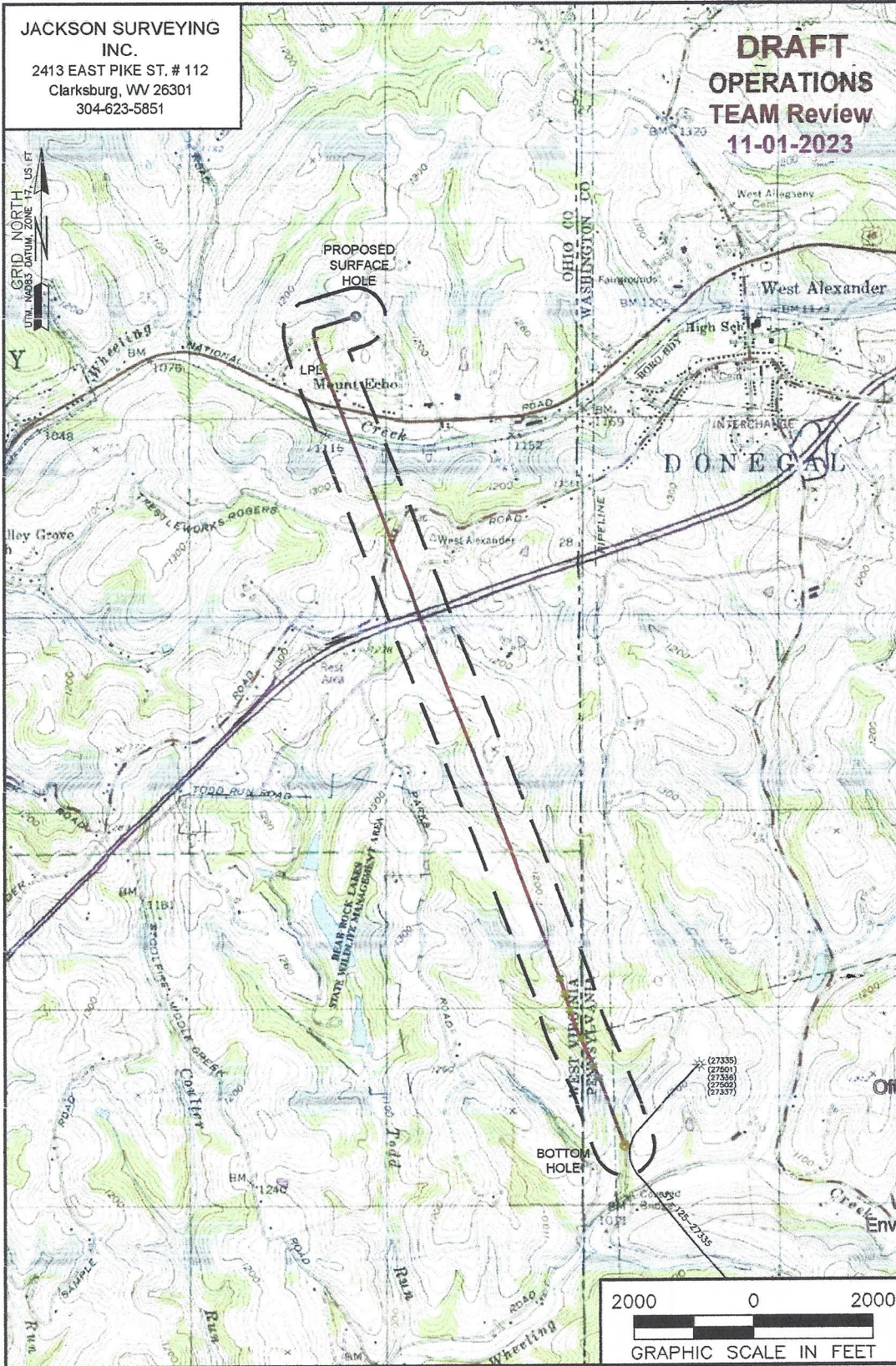
Onondaga 6,551' TVD

Created by: Colin Kollker on 01/21/2024

*Strader Gower*  
1/22/2024

02/23/2024



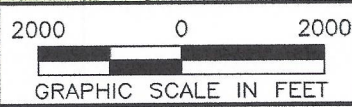


JACKSON SURVEYING  
INC.  
2413 EAST PIKE ST. # 112  
Clarksburg, WV 26301  
304-623-5851

**DRAFT**  
**OPERATIONS**  
**TEAM Review**  
**11-01-2023**

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

RECEIVED  
Office of Oil and Gas  
JAN 16 2024  
WV Department of  
Environmental Protection



**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.  
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: WILLIAM RODGERS OHI	WELL # 6H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508	COUNTY - CODE OHIO - 069	DISTRICT; LIBERTY	
SURFACE OWNER: DOUGLAS W RODGERS	USGS 7 1/2 QUADRANGLE MAP NAME VALLEY GROVE, WV		



William Rodgers OH16H AOR

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
37-125-27335	Range Resources Appalachia, LLC., 3000 Town Center Blvd., Cannonburg, PA 15317	Active	40.072539	-80.512036	6,783'	Marcellus	

RECEIVED  
Office of Oil and Gas

JAN 16 2024

WV Department of  
Environmental Protection

02/23/2024

Latitude: 40°07'30"

SURFACE HOLE 9020'

Latitude: 40°05'00" BOTTOM HOLE

4,620'

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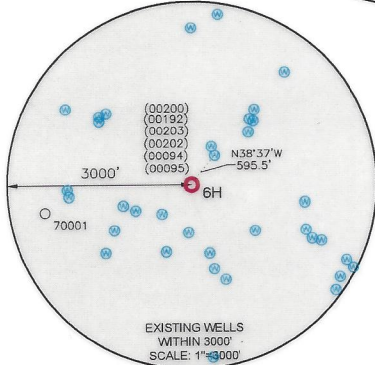
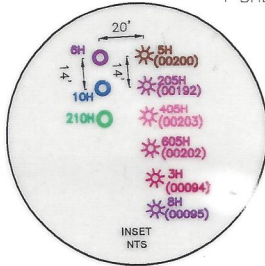
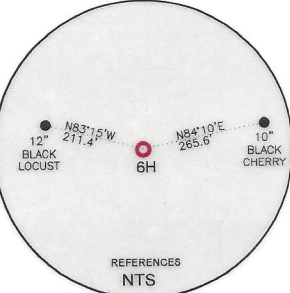
<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,439,734.656 EASTING: 539,864.239
<b>LANDING POINT (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,439,483.454 EASTING: 539,699.771
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,435,515.880 EASTING: 541,229.069

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

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 54°32'34" E	1046.68'	SHL TO LANDMARK	5/8" REBAR FOUND
L2	N 88°38'38" E	827.31'	SHL TO LANDMARK	5/8" REBAR FOUND
L5	S 15°29'56" E	299.86'	AZL2 TO AZL3	
L7	S 25°29'07" E	512.41'	AZL4 TO AZL5	
L9	S 21°04'45" E	1199.44'	AZL6 TO BHL	

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 33°12'49" W	985.08'	1361.38'	SHL TO LP
L4	S 18°17'24" E	278.69'	278.79'	AZL1 TO AZL2
L6	S 20°29'35" E	498.38'	498.99'	AZL3 TO AZL4
L8	S 23°16'56" E	220.16'	220.20'	AZL5 TO AZL6



**WELL RESTRICTIONS**

1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

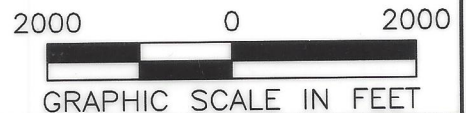
**NOTES ON SURVEY**

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4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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. 709

*David L Jackson*



COMPANY: **SWN** Production Company, LLC **SWN** Production Company™

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL &amp; GAS 601 57TH STREET CHARLESTON, WV 25034</p>	MINIMUM DEGREE OF ACCURACY: 1/200  PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	COMPANY: WILLIAM RODGERS OHI OPERATOR'S WELL #: 6H API WELL #: 47 STATE 069 COUNTY 00365 PERMIT
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WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: LITTLE WHEELING CREEK OF WHEELING CREEK (HUC-10) ELEVATION: 1279.2'

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

SURFACE OWNER: DOUGLAS W RODGERS ACREAGE: ±143.09

OIL & GAS ROYALTY OWNER: DOUGLAS W RODGERS ACREAGE: ±143.09

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6537 TWD 20 910 32 TMD

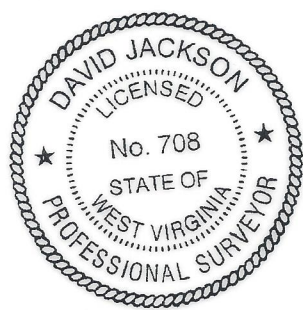
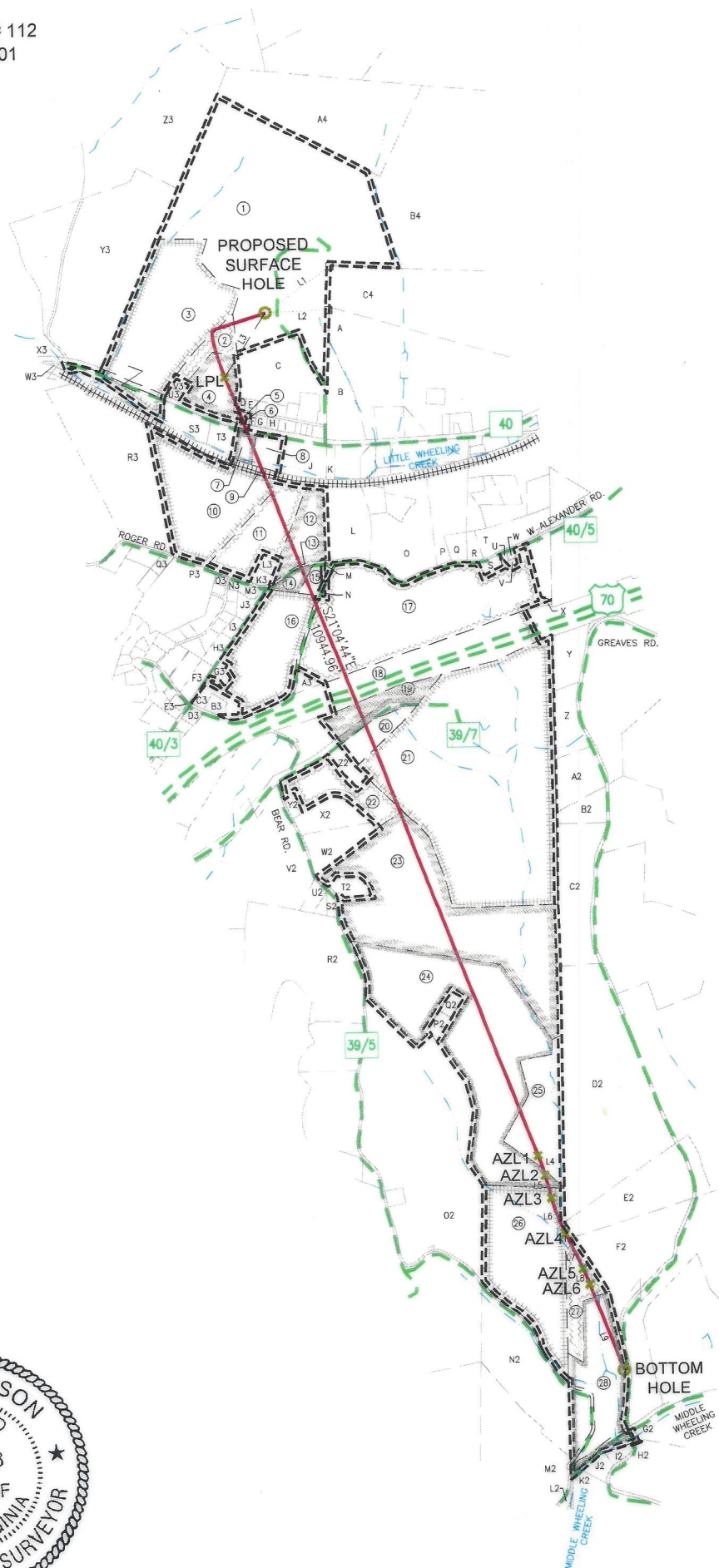
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY  
 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200  
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	<ul style="list-style-type: none"> <li>○ PROPOSED SURFACE HOLE / BOTTOM HOLE</li> <li>☆ EXISTING / PRODUCING WELLHEAD</li> <li>LPL* LANDING POINT LOCATION</li> <li>⊙ EXISTING WATER WELL</li> <li>⊙ EXISTING SPRING</li> </ul>	<ul style="list-style-type: none"> <li>— SURVEYED BOUNDARY</li> <li>— DRILLING UNIT</li> <li>== LEASE BOUNDARY</li> <li>— PROPOSED PATH</li> </ul>	REVISIONS: DATE: 12-21-2023 DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT
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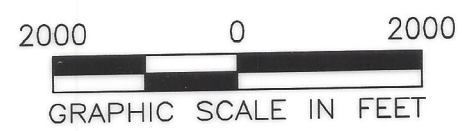
**JACKSON SURVEYING  
INC.**

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P.S. 709 *David L Jackson*



REVISIONS: 47-069-00365	COMPANY: <b>SWN</b> Production Company, LLC		<b>SWN</b> <i>R-V+</i> 02/23/2024 Production Company™
	OPERATOR'S WILLIAM RODGERS OHI		DATE: 12-21-2023
	WELL #: 6H		DRAWN BY: N. MANO
	DISTRICT: LIBERTY	COUNTY: OHIO	SCALE: 1"=2000'
		STATE: WV	DRAWING NO: WELL LOCATION PLAT 2



**JACKSON SURVEYING  
INC.**



2413 EAST PIKE ST. # 112  
Clarksburg, WV 26301  
304-623-5851

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	RODGERS DOUGLAS W (S/R)	03-L12-1
	SURFACE OWNER (S)	
2	CALDWELL CATHY J & JERRY W (S)	3-L12-6
3	MAZGAJ MILDRED J (S)	3-L11-62
4	MAXWELL TODD M (S)	3-L12-27
5	MAXWELL CONSTRUCTION LLC (S)	3-L12J-12
6	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (S)	RT. 40 NATIONAL RD.
7	FORDYCE SHAUN LEMOINE & FORDYCE JASON ERIC (S)	3-L12-24
8	SMUDDE JUSTIN CARL (S)	3-L12-29
9	TUNNEL RIDGE LLC (S)	3-L12-32
10	WATKINS THERESA & MARK (S)	3-L11-60
11	TUNNEL RIDGE LLC (S)	3-L12-25
12	TUNNEL RIDGE LLC (S)	3-L12-25.1
13	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (S)	REALTREE RD.
14	TUNNEL RIDGE LLC (S)	3-L12-18.1
15	TUNNEL RIDGE LLC (S)	3-L12-18.2
16	KLAGES PROPERTIES LLC (S)	3-L15-1.1
17	TRIPLE P LLC (S)	03-L12-18
18	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (S)	I-70
19	TRIPLE P LLC (S)	03-L12-18.8
20	TRIPLE P LLC (S)	03-L12-18.9
21	BERGHOFF GERALD W (S)	3-L15-5
22	BERGHOFF GERALD W (S)	03-L15-2.6
23	OLIVER LUCAS B (S)	03-L15-4
24	TUNNEL RIDGE LLC (S)	03-L15-4.6
25	MOORE ROBERT L (LIFE ESTATE) ET AL (S)	06-T5-3
26	BRIGGS KAREN LYNN & HENRY WILLIAM (S)	06-T10-4.2
27	BRIGGS KAREN LYNN (S)	680-5-3.1
28	HORR DONNIE L & GLENN B & KAREN L BRIGGS (S)	680-5-3

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	TANKOVITS JOSEPH & ANITA M	03-L12-4
B	RODGERS LISA D & DOUGLAS W	03-L12-4.1
C	RODGERS DOUGLAS WAYNE	3-L12-5.1
D	MAXWELL CONSTRUCTION LLC	3-L12J-26
E	BECK HARRY B & JEAN	03-L12J-25
F	BURROWS WILLIAM E & M L	03-L12J-13
G	BURROWS WM E & MARG L	03-L12J-14
H	TUNNEL RIDGE LLC	03-L12J-15
I	RODGERS DOUGLAS W	03-L12J-23.1
J	POLOCK DOUGLAS J & CHRISTINE M	03-L12-28
K	MCCAIVE SCOTT	03-L12-10.3
L	MCFARLAND DENNIS E & BRIS NANCY M	03-L12-22
M	DILLE RONALD A & VIRGINIA M	03-L12-18.4
N	TRIPLE P LLC	03-L12-18.3
O	SHRIVER DANIEL L SR & GOLDIE ANN	03-L12-21.5
P	SHRIVER DANIEL L & GOLDIE ANN	03-L12-21
Q	ADAMS FRANCES	03-L12-21.1
R	FRYE RICHARD L	03-L12-15
S	PARK ROBERT L & B L	03-L12-18.5
T	NOBLE VERA JANE C	03-L12-20
U	HARTZELL AMANDA (LC-BYR) TRIPLE P LLC (LC-SLR)	03-L12-18.10
V	HARTZELL AMANDA (LC-BYR) TRIPLE P LLC (LC-SLR)	03-L12-19.1
W	HARTZELL AMANDA (LC-BYR) TRIPLE P LLC (LC-SLR)	03-L12-19
X	TRIPLE P LLC	03-L12-18.7
Y	THOMAS MARTEN CO	230-6-7.2
Z	THOMAS MARTEN CO	230-6-7.1
A2	THOMAS MARTEN CO	230-6-7
B2	WARD ETHAN T	230-6-15.2
C2	TUNNEL RIDGE LLC	230-6-15
D2	MOORE HEIDI L & BENJAMIN R	230-6-10
E2	GREAVES THOMAS & MARTHA	230-6-12.1
F2	GREAVES THOMAS & MARTHA	680-5-4.2
G2	TUNNEL RIDGE LLC	680-5-4.1
H2	TUNNEL RIDGE LLC	680-5-10.2
I2	HANCHER MATTHEW W & KELLY	680-5-10.3
J2	HANCHER MATTHEW W	680-5-10
K2	MOORE TIMOTHY E	680-5-2
L2	LEMMON WADE LEE; LEMMON JOSHUA; LEMMON MORGAN	06-T10-10

Highlighted Parcels may be impacted during drilling.

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
M2	HORR DONNIE L & MICHELLE	06-T10-4.1
N2	HORR DONNIE, HORR GLEN & BRIGGS KAREN	06-T10-4
O2	DAVIS JOHN RICHARD ET AL	06-T10-1
P2	TUNNEL RIDGE LLC	03-L15-4.4
Q2	TUNNEL RIDGE LLC	03-L15-4.3
R2	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	06-T5-2
S2	JEWETT CLARENCE G	03-L15-4.2
T2	OLIVER LUCAS B C/O MCCAMIC JEFF	03-L15-4.5
U2	MORGAN SALLY A	03-L15-2.4
V2	PAGENDARM JOS F & P M	03-L15-2.2
W2	ERNEST LAWRENCE F & DEBORAH K	03-L15-4.1
X2	ERNEST LAWRENCE F & DEBORAH	03-L15-3
Y2	GYEKIS ROBERT J & VICKI L	03-L15-2.3
Z2	BERGHOFF BRAD W	03-L15-2.9
A3	TURNER FRANCES A	03-L12-18.6
B3	WOOD BRENTON R & KELLY S	03-L15-1.2
C3	WOOD BRENTON R & KELLY S	3-L15-1.3
D3	SHREVE COLTON & JESSICA SPIKER	03-L14-39
E3	NUNES ANDREW J	3-L11-48.9
F3	TUNNEL RIDGE LLC	03-L14-54
G3	KLAGES PROPERTIES LLC	03-L15-7
H3	KLAGES PROPERTIES LLC	03-L11-48.1
I3	KLAGES LLOYD A JR & AMY	03-L11-48.10
J3	KLAGES LLOYD A JR & AMY	03-L12-30
K3	ENGLISH MARGARET B	03-L12-25.3
L3	KLAGES LLOYD A JR	03-L12-25.2
M3	KLAGES JACOB LLOYD	03-L12-30.1
N3	KLAGES PROPERTIES LLC	03-L11-46.24
O3	JSNE LLC	03-L11-46.8
P3	TUNNEL RIDGE LLC	03-L11-46.11
Q3	POWERS JEFFREY B	03-L11-46.20
R3	GRIFFITH SHARON & WARREN	03-L11-60.1
S3	MAZGAJ MILDRED J	03-L11-67
T3	FORDYCE TERRY L	03-L12-23
U3	PATRICK LARRY MICHAEL	03-L11-68
V3	CALDWELL JERRY & CATHY	03-L11-69
W3	NOLAN JOHN A JR	03-L11-63
X3	WINTERS FAMILY FARM LLC	03-L11-28
Y3	CREIGHTON RANDY J	03-L11-29
Z3	MINCH TIMMY B & AMY LYNN	03-L9-12
A4	OCH JEFFREY S & DANA R	03-L12-2.1
B4	MILLER RAYMOND M & H E C/O MILLER HILDA	03-L12-2
C4	TUNNEL RIDGE LLC	03-L12-4.6

REVISIONS: 47-069-00365	COMPANY:	 		02/23/2024
	OPERATOR'S	WILLIAM RODGERS OHI		DATE: 12-21-2023
	WELL #:	6H		DRAWN BY: N. MANO
	DISTRICT:	COUNTY:	STATE:	SCALE: N/A
	LIBERTY	OHIO	WV	DRAWING NO:
				WELL LOCATION PLAT 3



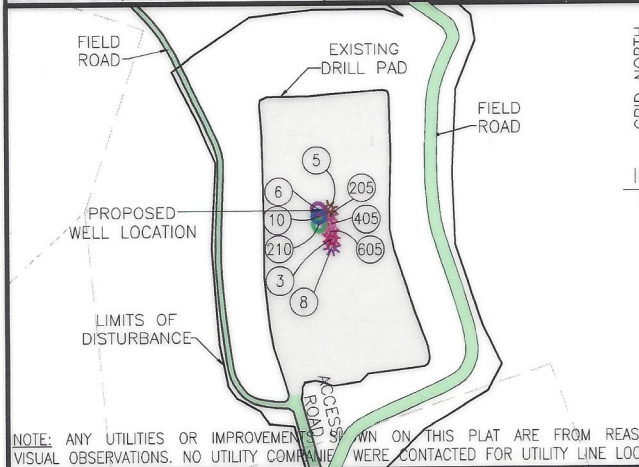
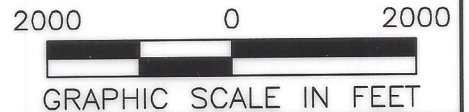
**JACKSON SURVEYING  
INC.**  
2413 EAST PIKE ST. # 112  
Clarksburg, WV 26301  
304-623-5851



<b>SURFACE HOLE LOCATION (SHL):</b>	
GEOGRAPHIC (NAD83): LATITUDE: 40.106969° LONGITUDE: -80.532255°	
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,566,029.450 EASTING: 1,771,204.590	
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,439,734.656 EASTING: 539,864.239	
<b>TURNING POINT LOCATION-1 (TPL1):</b>	
GEOGRAPHIC (NAD83): LATITUDE: 40.106411° LONGITUDE: -80.534709°	
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,565,822.760 EASTING: 1,770,519.480	
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,439,671.657 EASTING: 539,655.417	
<b>LANDING POINT LOCATION (LPL):</b>	<b>AZIMUTH POINT LOCATION-4 (AZL4):</b>
GEOGRAPHIC (NAD83): LATITUDE: 40.104713° LONGITUDE: -80.534201°	GEOGRAPHIC (NAD83): LATITUDE: 40.073805° LONGITUDE: -80.519117°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,565,205.300 EASTING: 1,770,665.000	UTM (NAD83, ZONE 17, FEET): NORTHING: 14,553,972.310 EASTING: 1,774,943.480
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,439,483.454 EASTING: 539,699.771	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,059.632 EASTING: 541,003.855
<b>AZIMUTH POINT LOCATION-1 (AZL1):</b>	<b>AZIMUTH POINT LOCATION-5 (AZL5):</b>
GEOGRAPHIC (NAD83): LATITUDE: 40.076612° LONGITUDE: -80.520320°	GEOGRAPHIC (NAD83): LATITUDE: 40.072531° LONGITUDE: -80.518338°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,554,992.720 EASTING: 1,774,601.410	UTM (NAD83, ZONE 17, FEET): NORTHING: 14,553,509.760 EASTING: 1,775,163.960
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,370.654 EASTING: 540,899.592	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,435,918.647 EASTING: 541,071.057
<b>AZIMUTH POINT LOCATION-2 (AZL2):</b>	<b>AZIMUTH POINT LOCATION-6 (AZL6):</b>
GEOGRAPHIC (NAD83): LATITUDE: 40.075884° LONGITUDE: -80.520013°	GEOGRAPHIC (NAD83): LATITUDE: 40.071974° LONGITUDE: -80.518031°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,554,728.110 EASTING: 1,774,688.870	UTM (NAD83, ZONE 17, FEET): NORTHING: 14,553,307.530 EASTING: 1,775,250.980
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,290.001 EASTING: 540,926.249	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,435,857.007 EASTING: 541,097.581
<b>AZIMUTH POINT LOCATION-3 (AZL3):</b>	<b>BOTTOM HOLE LOCATION (BHL):</b>
GEOGRAPHIC (NAD83): LATITUDE: 40.075089° LONGITUDE: -80.519732°	GEOGRAPHIC (NAD83): LATITUDE: 40.068895° LONGITUDE: -80.516511°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,554,439.150 EASTING: 1,774,769.000	UTM (NAD83, ZONE 17, FEET): NORTHING: 14,552,188.350 EASTING: 1,775,682.370
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,201.925 EASTING: 540,950.673	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,435,515.880 EASTING: 541,229.069

**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.



NOTE: ANY UTILITIES OR IMPROVEMENTS SHOWN ON THIS PLAT ARE FROM REASONABLE VISUAL OBSERVATIONS. NO UTILITY COMPANIES WERE CONTACTED FOR UTILITY LINE LOCATIONS.

PROPOSED SURFACE HOLE / BOTTOM HOLE	DRILLING UNIT
EXISTING / PRODUCING WELLHEAD	LEASE BOUNDARY
ABANDONED WELL	HARDLINE BOUNDARY
PLUGGED & ABANDONED WELL	UPP 2 > = UPPER POINT PLEASANT PATH
LPL* LANDING POINT LOCATION	MAR 2 > = MARCELLUS PATH

COMPANY: <b>SWN</b> Production Company, LLC		
OPERATOR'S <b>WILLIAM RODGERS OH</b>		
WELL #: <b>6H</b>		
DISTRICT: <b>LIBERTY</b>	COUNTY: <b>OHIO</b>	STATE: <b>WV</b>

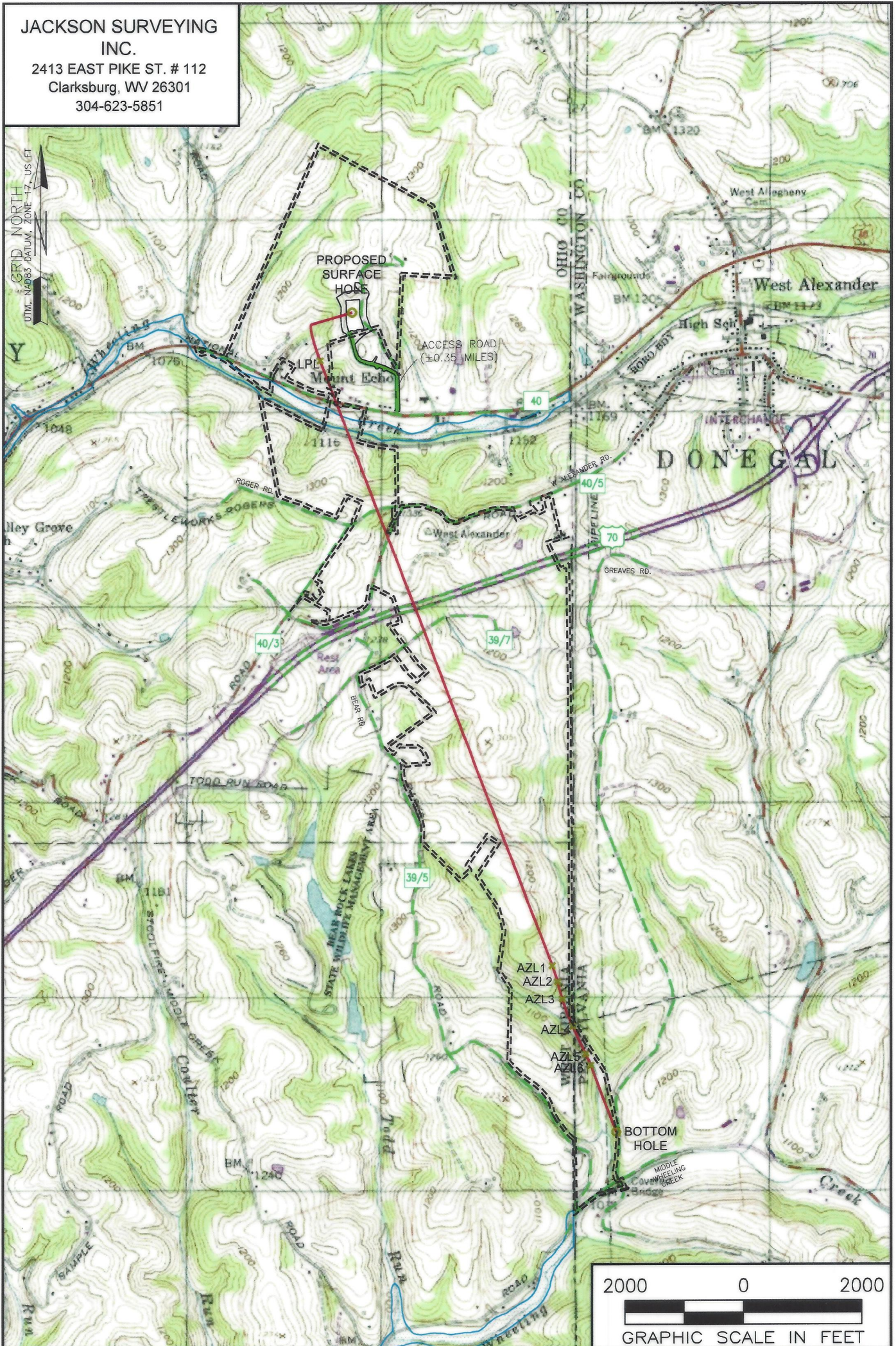
SWN PRODUCTION COMPANY, LLC SURFACE HOLES	
3. "WILLIAM RODGERS OH 3H"	605. "WILLIAM RODGERS OH 605H"
5. "WILLIAM RODGERS OH 5H"	
6. "WILLIAM RODGERS OH 6H"	
8. "WILLIAM RODGERS OH 8H"	
10. "WILLIAM RODGERS OH 10H"	
205. "WILLIAM RODGERS OH 205H"	
210. "WILLIAM RODGERS OH 210H"	
405. "WILLIAM RODGERS OH 405H"	
<b>02/23/2024</b>	

REVISIONS: <b>47-069-00365</b>	DATE: 12-21-2023
	DRAWN BY: N. MANO
	SCALE: 1" = 2000'
	DRAWING NO:
	INTERNAL WELL PLAT



**JACKSON SURVEYING  
INC.**  
2413 EAST PIKE ST. # 112  
Clarksburg, WV 26301  
304-623-5851

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



**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.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

**LEGEND:**

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊙ EXISTING / PRODUCING WELLHEAD
- ✱ LPL\* LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PROPOSED SURFACE HOLE / BOTTOM HOLE SITE
- LEASE BOUNDARY
- PROPOSED PATH

<p><b>WELL OPERATOR:</b> SWN PRODUCTION COMPANY, LLC</p> <p><b>ADDRESS:</b> 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508</p> <p><b>SURFACE OWNER:</b> DOUGLAS W RODGERS</p>	<p><b>WELL (FARM) NAME:</b> WILLIAM RODGERS OHI</p> <p><b>COUNTY - CODE:</b> OHIO - 069</p> <p><b>USGS 7 1/2 QUADRANGLE MAP NAME:</b> VALLEY GROVE, WV</p>	<p><b>WELL #</b> 6H</p>	<p><b>SERIAL #</b></p>
--	--	-----------------------------	------------------------



WW-6A1  
(5/13)

Operator's Well No. WILLIAM RODGERS OHI 6H

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

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

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

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

See Exhibit "A"

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

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

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

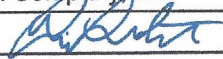
- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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JAN 16 2024

WV Department of  
Environmental Protection

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

Well Operator: SWN Production Company, LLC  
 By: Tim Ledet   
 Its: Staff Landman

## EXHIBIT "A"

William Rodgers OHI 6H

Ohio and Washington Counties, West Virginia and Pennsylvania

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

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
1	3-L12-1	William I. Rodgers, widow, and Douglas W. Rodgers, single	TriEnergy Holdings, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	810/374 825/708 833/611	0.00%
2	3-L12-6	Jerry W. Caldwell and Cathy J. Caldwell, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	851/355 885/764	0.00%
3	3-L11-62	Marion S. Mazgaj and Mildred J. Mazgaj, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	821/654 885/608	0.00%
4	3-L12-27	Todd M. Maxwell, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	814/51 883/587	0.00%
5	3-L12-12	Melanie Jo VanRiper, widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	837/173 885/716	0.00%
6	National Rd. (Route 40)	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	830/11 883/611	0.00%
7	3-L12-24	Shaun Lemoine Fordyce, a single man, and Jason Eric Fordyce, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	840/232 885/740	0.00%
8	3-L12-29	Michele Road, Trustee for the 2524 Lincoln Ave Ranch 080012202002 Trust	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	862/116 883/766	0.00%
9	3-L12-32	Tunnel Ridge, LLC	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.75%	865/672 883/778	0.00%
10	3-L11-60	Lloyd A. Klages and Bertha L. Klages, husband and 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	0.00%
11	3-L12-25	Lloyd A. Klages and Bertha L. Klages, husband and 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	0.00%
12	3-L12-25.1	Lloyd A. Klages and Bertha L. Klages, husband and 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	0.00%
13	Realtree Rd.	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20.00%	928/788	0.00%
14	3-L12-18.1	Ronald Alan Dille and Virginia Marie Dille, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	859/531 883/754	0.00%
15	3-L12-18.2	Sylvia Oretta Dille Masteller (Life Estate Interest), by and through her Attorney-in-Fact, Ronald A. Dille and Ronald A. Dille and Virginia M. Dill, husband and wife (Remainder Interest)	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	859/526 883/754	0.00%

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Environmental Protection  
02/23/2024

## EXHIBIT "A"

William Rodgers OHI 6H

Ohio and Washington Counties, West Virginia and Pennsylvania

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

16	3-L15-1.1	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. SWN Production Company, LLC	18.00% 817/638 885/548	0.00%
17	3-L12-18	Deborah Lynn Plumber  Robert Park a/k/a Robert Louis Park and Barbara Lee Park, husband and wife  Patricia Paetzold	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00% 827/184 885/680 18.00% 827/196 885/680 18.00% 827/203 885/680	0.00%
18	1-70	Deborah Lynn Plumber  Robert Park a/k/a Robert Louis Park and Barbara Lee Park, husband and wife  Patricia Paetzold	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00% 827/184 885/680 18.00% 827/196 885/680 18.00% 827/203 885/680	0.00%
19	3-L12-18.8	Deborah Lynn Plumber  Robert Park a/k/a Robert Louis Park and Barbara Lee Park, husband and wife  Patricia Paetzold	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00% 827/184 885/680 18.00% 827/196 885/680 18.00% 827/203 885/680	0.00%
20	3-L12-18.9	Deborah Lynn Plumber  Robert Park a/k/a Robert Louis Park and Barbara Lee Park, husband and wife  Patricia Paetzold	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00% 827/184 885/680 18.00% 827/196 885/680 18.00% 827/203 885/680	0.00%
21	3-L15-5	Gerald W. Berghoff and Bonnie D. Berghoff, husband and wife	SWN Production Company, LLC	18.00% 977/76	0.00%
22	3-L15-2.6	Gerald W. Berghoff and Bonnie D. Berghoff, husband and wife	SWN Production Company, LLC	18.00% 977/76	0.00%
23	3-L15-4	Lucas B. Oliver, married, and Jeffrey W. McCamic, Attorney-in-Fact for Jacob S. Oliver McCamic	Great Lakes Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50% 777/589 808/521 883/515	0.00%
24	3-L15-4.6	Lucas B. Oliver, married, and Jeffrey W. McCamic, Attorney-in-Fact for Jacob S. Oliver McCamic	Great Lakes Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50% 777/589 808/521 883/515	0.00%

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JAN 16 2024

WV Department of  
Environmental Protection  
02/23/2024

EXHIBIT "A"

William Rodgers OHI 6H

Ohio and Washington Counties, West Virginia and Pennsylvania

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

25	6-T5-3	Benjamin Robert Moore, single	SWN Production Company, LLC	18.00%	1038/246	0.00%
		Heidi Lee Moore, single	SWN Production Company, LLC	18.00%	1038/262	0.00%
26	6-T10-4.2	Karen Lynn Briggs, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	18.00%	822/401	0.00%
			SWN Production Company, LLC		885/105	
27	680-5-3.1	Karen L. Briggs	Chesapeake Appalachia, L.L.C.	18.00%	201201618	0.00%
			SWN Production Company, LLC		201442022	
28	680-5-3	Patricia A. Clark, single	Chesapeake Appalachia, L.L.C.	18.00%	201201619	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		201442022	
D	680-5-3	Mary Jane Fleming	Chesapeake Appalachia, L.L.C.	18.00%	837/195	0.00%
			SWN Production Company, LLC		885/716	
END OF EXHIBIT A						

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

02/23/2024





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

November 16, 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: William Rodgers OHI 6H in Ohio County and Washington County, West Virginia and Pennsylvania, drilling under National Road (Route 40), Caldwell Lane, Realtree Road, W Alexander Road, I-70, Berghoff Drive and Yosemite Drive.

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 (Route 40), Caldwell Lane, Realtree Road, W. Alexander Road, I-70, Berghoff Drive and Yosemite Drive. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

Tim Ledet  
Staff Landman  
SWN Production Company, LLC

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JAN 16 2024

WV Department of  
Environmental Protection

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

02/23/2024

January 11, 2024

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

CK #  
0001079983  
\$7,500 -  
Expedited

**RE: Proposed Expedited Mod:**

*William Rodgers*  
~~Timmy Minch~~ OHI 6H API 47-069-00365

Dear Mr. Brewer:

Enclosed please find the required documents to modify this well. We would like to modify this well by adjusting the TVD & TMD. This well is situated on the Rodger's property, in Liberty District, Ohio County, West Virginia.

Enclosed you will find:

- 6B
- WBD
- Mylar
- 6A1

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

Thank you.

Sincerely,

*Brittany Woody*

Brittany Woody  
Staff Regulatory Specialist  
Southwestern Energy Production Company, LLC

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Office of Oil and Gas

JAN 16 2024

WV Department of  
Environmental Protection

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

02/23/2024