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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, March 17, 2021  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC  
POST OFFICE BOX 12359  
SPRING, TX 773914954

Re: Permit Modification Approval for STATE OF WV DNR C BRK 6H  
47-009-00316-00-00

Shorten Lateral on Pennsylvania side of border. Total Measured Depth change 28547' to 27035'.  
Horizontal Leg Length change 22488.76 to 20952.99'. Total Vertical Depth 5897' to 5836'.

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: STATE OF WV DNR C BRK 6H  
Farm Name: STATE OF WV, BUREAU OF COMMERCE, DIVISIO  
U.S. WELL NUMBER: 47-009-00316-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 03/17/2021

Promoting a healthy environment.

03/19/2021

WW-6B  
(04/15)

API NO. 47-009 - 00316 0003  
OPERATOR WELL NO. State of WV DNR C BRK 6H  
Well Pad Name: State of WV DNR C BRK

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 009-Brooke 4-Cross 620-Steubenville  
Operator ID County District Quadrangle

2) Operator's Well Number: State of WV DNR C BRK 6H Well Pad Name: State of WV DNR C BRK

3) Farm Name/Surface Owner: State of WV DNR Public Road Access: Putney Ridge Road

4) Elevation, current ground: 993' Elevation, proposed post-construction: 990'

5) Well Type (a) Gas  Oil  Underground Storage   
Other

(b) If Gas Shallow  Deep   
Horizontal

*C-BRO 2-26-21*

6) Existing Pad: Yes or No No

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- 5784', Target Base TVD- 5850', Anticipated Thickness- 66', Associated Pressure- 3802

8) Proposed Total Vertical Depth: 5836'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 27,035'

11) Proposed Horizontal Leg Length: 20,952.99'

12) Approximate Fresh Water Strata Depths: 371'

13) Method to Determine Fresh Water Depths: nearby water well.

14) Approximate Saltwater Depths: 575' salinity profile analysis

15) Approximate Coal Seam Depths: 6'

16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes  No

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

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WV Department of  
Environmental Protection

WW-6B  
(04/15)

API NO. 47- 009

OPERATOR WELL NO. State of WV DNR C BRK 6H

Well Pad Name: State of WV DNR C BRK

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#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	421'	421'	415 sx/CTS
Coal	See	Conductor	Casing				
Intermediate	9 5/8"	New	J-55	36#	1380'	1380'	456 sx/CTS
Production	6"	New	P-110 HP	24#	0'	4800'	
Production	5 1/2"	New	P-110 HP	20#	4800'	<del>29,985'</del> 27,035'	Total 8576x100' inside intermediate
Liners							

C-780 2-26-21 WS 3/17/21

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	Conductor	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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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. 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): 15.72

22) Area to be disturbed for well pad only, less access road (acres): 12.13

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.

03/19/2021  
Page 3 of 3

# Southwestern Energy Company

# Proposed Drilling Program

Well: STATE OF WV DNR C BRK 6  
 Field: PANHANDLE FIELD WET  
 County: BROOKE  
 SHL: 40.3023 Latitude -80.5377 Longitude  
 BHL: 40.2400 Latitude -80.5079 Longitude  
 KB Elev: 1,016 ft MSL KB: 26 ft AGL

Re-entry Rig: SDC 40  
 Prospect: Marcellus Shale  
 State: WV  
 GL Elev: 990 ft MSL



*C. Hall*  
 22621

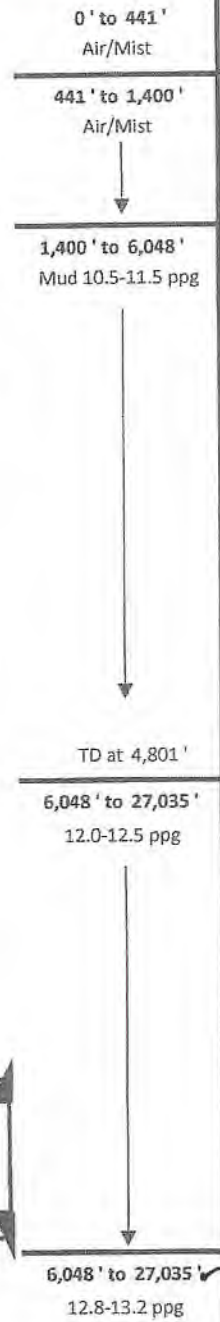
PROD TOC Lead @ 1,500' MD  
 PROD TOC Tail @ 5,050' MD

### TUBULAR DETAIL

Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Cond/Coal	20	94.0 #	J-55	0'	100'
Surface	13.375	48.0 #	H-40	0'	421'
Intermediate	9.625	36.0 #	J-55	0'	1,380'
Production	6	24.0 #	P-110 HP	0'	4,800'
	5.5	20.0 #	P-110 HP	4,800'	27,035'

### CEMENT DETAIL

	Sacks	Class	Density
Conductor:	151	A	19.3
Surface:	415	A	15.6
Intermediate:	456	A	15.6
Production:	8578	A	15.0



KOP at 4,801' MD

- Freshwater Depth - 371' TVD ✓
- Coal Depth - 6' TVD ✓
- Saltwater Depth - 575' TVD ✓
- TVD - 5,836' ✓
- TMD - 27,035' ✓

5,628' TVD Target Center

TD at 27,035' MD ✓  
 5,836' TVD ✓

EOB at 6,048' MD

EOB at 5,628' TVD

SHL Onondaga 5,644' TVD

Onondaga 5,852' TVD ✓

6,048' to 27,035' ✓  
 12.8-13.2 ppg

Created by: C R Hall on 02/25/2021

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Latitude: 40°20'00"

SURFACE HOLE 10521'

Latitude: 40°15'00" BOTTOM HOLE 2,720'

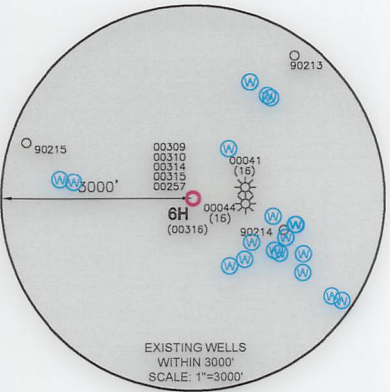
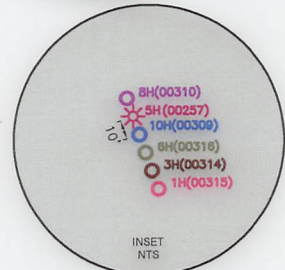
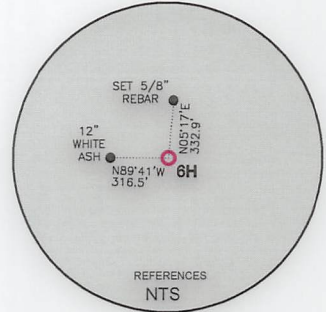
JACKSON SURVEYING INC.

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

3000' 0 3000'

GRAPHIC SCALE IN FEET

<b>SURFACE HOLE LOCATION (SHL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,461,414.602	
EASTING: 539,284.420	
<b>LANDING POINT (LPL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,461,290.204	
EASTING: 539,193.808	
<b>BOTTOM HOLE LOCATION (BHL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,455,347.089	
EASTING: 541,531.873	



BOTTOM HOLE 2,292'  
SURFACE HOLE 11300'  
Longitude: 80°30'00"  
Longitude: 80°30'00"

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 36°00'12" W	1016.79'	SHL TO LANDMARK	2" IRON PIPE FOUND
L2	N 66°58'49" W	1301.51'	SHL TO LANDMARK	STONE FOUND
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 36°04'10" W	504.92'	1316.86'	SHL TO LP

WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- 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

- 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.
- 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. 708

David L Jackson



COMPANY:

SWN

SWN

Production Company, LLC Production Company™



(+) 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  
 PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

STATE OF WV DNR C BRK  
 OPERATOR'S WELL #: 6H  
 API WELL #: 47 009 00316  
 STATE COUNTY PERMIT

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

WATERSHED: NORTH FORK CROSS CREEK - CROSS CREEK (HUC-10) ELEVATION: 990.0'

DISTRICT: CROSS CREEK COUNTY: BROOKE QUADRANGLE: STEUBENVILLE EAST, WV

SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION ACREAGE: ±83.858

OIL & GAS ROYALTY OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION ACREAGE: ±83.858

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: 5,836 IVD 27,035 TMD

03/19/2021

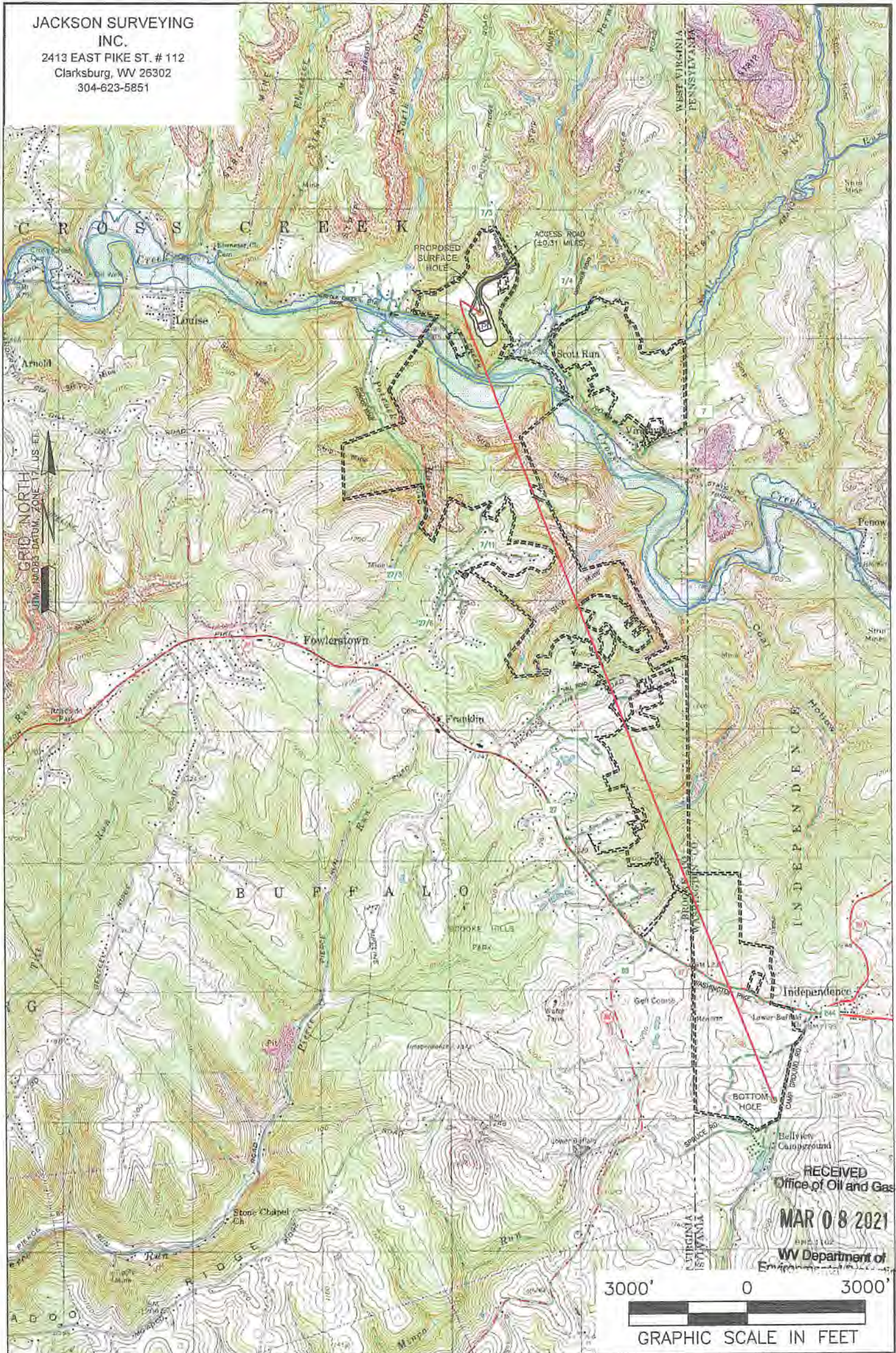
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY  
 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200  
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

<b>LEGEND:</b>	— SURVEYED BOUNDARY	<b>REVISIONS:</b>	DATE: 03-01-2021
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT		
⊗ EXISTING / PRODUCING WELLHEAD	— LEASE BOUNDARY		
LPL ⊗ LANDING POINT LOCATION	— PROPOSED PATH		
⊗ EXISTING WATER WELL	AZL ⊗ AZIMUTH POINT LOCATION		
⊗ EXISTING SPRING			
			DRAWN BY: N. MANO
			SCALE: 1" = 3000'
			DRAWING NO:
			WELL LOCATION PLAT



**JACKSON SURVEYING  
INC.**

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851



**NOTES ON SURVEY**

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

**LEGEND:**

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

03/19/2021

<b>WELL OPERATOR:</b> SWN PRODUCTION COMPANY, LLC	<b>WELL (FARM) NAME:</b> STATE OF WV DNR C BRK	<b>WELL #</b> 6H	<b>SERIAL #</b>
<b>ADDRESS:</b> 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508	<b>COUNTY - CODE</b> BROOKE - 009	<b>DISTRICT:</b> CROSS CREEK	
<b>SURFACE OWNER:</b> STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	<b>USGS 7 1/2 QUADRANGLE MAP NAME</b> STUEBENVILLE EAST, WV	<b>API #:</b> 47-009-00316	





JACKSON SURVEYING  
 INC.  
 2413 EAST PIKE ST. # 112  
 Clarksburg, WV 26302  
 304-623-5851

DETAIL "A"



03/19/2021

REVISIONS:	COMPANY:		 	
	OPERATOR'S	STATE OF WV DNR C BRK	API:	Mo03
	WELL #:	6H	47-009-00316	DATE: 03-01-2021
	DISTRICT:	CROSS CREEK	COUNTY:	BROOKE
				DRAWN BY: N. MANO SCALE: N/A DRAWING NO: WELL LOCATION PLAT 2





JACKSON SURVEYING  
 INC.  
 2413 EAST PIKE ST. # 112  
 Clarksburg, WV 26302  
 304-623-5851

DETAIL "B"



03/19/2021

REVISIONS:	COMPANY:	 			
	OPERATOR'S	STATE OF WV DNR C BRK	API: <b>no03</b>	DATE: 03-01-2021	
	WELL #:	6H	47-009-00316	DRAWN BY: N. MANO	
	DISTRICT:	CROSS CREEK	COUNTY:	BROOKE	SCALE: N/A
			STATE:	WV	DRAWING NO: WELL LOCATION PLAT 3



**JACKSON SURVEYING  
INC.**



2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S/R)	4-CC20-06
TRACT	SURFACE OWNER	TAX PARCEL
2	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC19-169
3	NICKOLES 3, LLC (S)	4-CC20-33
4	NORFOLK & WESTERN RAILWAY CO. (S)	4-C19K-18
5	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC23-325
6	MARK E. VAUGHN & LISA A. VAUGHN (S)	04-CC24-09
7	DAVID A. MIHLBAUER & TERI L. MIHLBAUER (S)	04-CC24-10
8	OTIS T. PETTRY (S)	04-CC24-11
9	OTIS T. PETTRY (S)	04-CC24-12
10	RAYMOND S. CROSS, DENNIS P. CROSS, & KATHRYN R. BUTLER (S)	04-CC24-13
11	JAMES MCCLOUD, ET AL (S)	04-CC24-15
12	GEORGE L. BRADLEY (S)	04-CC24-55
13	DEAN SMITH (S)	04-CC24-98
14	DEAN SMITH (S)	04-CC24-99
15	MICHAEL K. MCFADDEN & SHARON MCFADDEN (S)	04-CC24-93
16	MICHAEL J. CIPRIANI (S)	04-CC24-142
17	MICHAEL J. CIPRIANI (S)	04-CC24-141
18	RICHARD H. SCOTT & DENA M. SCOTT (S)	04-CC24-104
19	STEVEN BROWN (S)	04-CC24-99.2
20	EDWARD A. CALVERT & JULIA A. CALVERT (SURV)(S)	04-CC24-105
21	EDWARD A. CALVERT & JULIE A. CALVERT (S)	04-CC24-106
22	TRAVIS SMITH (S)	04-CC24-112
23	MICHAEL D. JONES & LOIS J. JONES (S)	4-CC24-128
24	EUGENE MITCHELL JR. & MARGARET MITCHELL - L/E, JESSE MITCHELL ET AL (S)	04-CC24-131
25	THOMAS COLE & VIRGINIA COLE (S)	04-CC24-127
26	ELLEN CATTARUZZA (S)	4-CC29-39
27	JONATHAN G. BEALL & DEANNA M. BEALL (S)	4-CC29-40
28	JEFFERY LUCK & JANE DAUGHERTY-LUCK (S)	04-CC29-39.1
29	JEFFERY LUCK & JANE DAUGHERTY-LUCK (S)	04-CC29-39.13
30	MARK A. HONE & LAUREN N. HONE (S)	04-CC29-39.2
31	DEBRA CYPHER, MATTHEW FAIR & SUSAN BRUFFY (S)	4-CC29-57
32	ROBERT LEE FRESHWATER (S)	4-CC29-134
33	RUTH ANN STEWART, MADELOD DAWN JACKSON (S)	4-CC29-194
34	NEAL E. SMITH & JOAN W. SMITH (S)	04-CC29-194.2
35	RYAN M. SMITH & BROOKE N. SMITH (S)	370-007-00-00-0001-01
36	NICOLE R. SMITH & NEAL E. SMITH (S)	370-007-00-00-0001-02
37	JOSEPH J. DEPETRO III (S)	370-007-00-00-0001-00
38	HIGHLAND SPRINGS GOLF COURSE (S)	370-007-00-00-0006-00
39	ROBERT G. BRIGGS & NANCY L. BRIGGS (S)	370-007-00-00-0002-00
40	BROWNLEE LAND VENT LP (S)	370-007-00-00-0005-00

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	WILLIAM C. BAIRD & CYNTHIA L. BAIRD	04-CC24-05
B	ALBERT JOHNS, GARY JOHNS, GREGORY JOHNS & TAMMY MOORE	04-CC23-326
C	WILLIAM H. THOMPSON & DEBRA THOMPSON	04-CC23-320
D	SAMUEL HUBBARD	04-CC23-318
E	BRIAN CORWIN	04-CC23-78
F	COOK FAMILY REVOCABLE TRUST	04-CC23-322
G	BOBBIE JO MENEELY & RANDALL MINCH	04-CC23-324
H	MICHAEL W. MOORE	04-CC23-323
I	JUDITH ANN MOORE	04-CC23-185
J	CHARLES D. MOORE & CECILIA F. MOORE	04-CC23-180
K	ROSA MARIE EDGEELL	04-CC23-176
L	CONSTANTINE EVANGELINOS & TOULA EVANGELINOS	04-CC23-171
M	LINDY L. GALIANO	04-CC23-170
N	PETER D'AGOSTINO	04-CC23-188
O	GREGORY DANIEL NICKOLES, RANDY LEE NICKOLES, JEFFREY OWN NICKOLES (DANNY NICKOLES & GRACE NICKOLES -LE)	04-CC23-160
P	DAVID BAKER	04-CC19-164
Q	DOUGLAS P. EMMERTH & PAMELA L. EMMERTH	04-CC19-165
R	JUDITH ANN BERNARDINI	04-CC20-09
S	MICHAEL LEE BERNARDINI & JULIE LYNN BERNARDINI	04-CC20-44
T	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	04-CC19-168
U	GRETCHEN MOORE LANGEVIN, TRUSTEE & WESTBANCO BANK INC, TRUSTEE	04-CC20-05

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
V	JOHN ERNEST MILLER & JESSE ANDREW MILLER	04-CC20-04
W	SUSAN D. BREEN & DENNIS M. BREEN	04-CC20-22
X	COLLIER'S SPORTSMAN CLUB	04-CC20-21
Y	WILLIAM MORGAN ROUSE & DORIS J. ROUSE	04-CC20-20
Z	LINDY L. BLACK	04-CC20-07
A2	LINDY L. GALIANO & SANTY GALIANO	04-CC20-19.1
B2	EDWARD L. CARTER & DEBORAH C. CARTER	04-CC20-18
C2	EDWARD L. CARTER & DEBORAH C. CARTER	04-CC20-17
D2	ERIC T. GALIANO	04-CC20-16
E2	ERIC T. GALIANO	04-CC20-14
F2	ERIC T. GALIANO	04-CC20-19
G2	KEVIN MCCONNELL	04-CC20-11
H2	SUSAN KAY PRONCHIK	4-CC20-08
I2	BARBARA J. MCCONNELL	4-CC20-10
J2	NORFOLK & WESTERN RAILWAY CO.	04-C24B-29
K2	ROBERT G. HIGGINBOTHAM JR.	04-CC20-41
L2	RON GASPARENE	04-CC20-40
M2	WILLIAM & MILDRED T. MARINO	04-CC20-35
N2	ROBERT & DELORIS CLINE	04-CC20-34
O2	DEBORAH K. SLIDAY	04-CC20-32
P2	STATE OF WV DNR	04-CC20-25
Q2	CALVIN H. MYERS JR.	380-014-00-00-0002-00
R2	JEFFERSON QTW EXEMPT PROPERTY	380-014-00-00-0001-00
S2	RANDY L. NICKOLES	380-015-00-00-0019-00

03/19/2021

REVISIONS:	COMPANY:	 	
	OPERATOR'S	STATE OF WV DNR C BRK	API: <b>1003</b>
	WELL #:	6H	DATE: 03-01-2021
	DISTRICT:	CROSS CREEK	COUNTY: BROOKE
			STATE: WV
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 4





**JACKSON SURVEYING  
INC.**

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
T2	JEFFERY O. NICKOLES	04-C24B-09
U2	RANDY L. NICKOLES	04-C24B-08
V2	RANDY L. NICKOLES	04-C24B-33
W2	MICHAEL OBER	4-CC24-07
X2	GREG NICKOLES & CAROL NICKOLES	04-C24B-12
Y2	GREG NICKOLES & CAROL NICKOLES	04-C24B-13
Z2	GREG NICKOLES & CAROL NICKOLES	04-C24B-14
A3	H3, LLC.	04-C24B-15
B3	GREG NICKOLES & CAROL NICKOLES	04-C24B-16
C3	CL45 MW REO I, LLC	04-C24B-20
D3	JOHN MATTHEW BUCY & TABITHA BUCY	04-C24B-07
E3	GREGORY NICKOLES	04-C24B-06
F3	DEBRA MCQUILLAN & ANNETTE MILLER	04-C24B-27
G3	DEBRA MCQUILLAN & ANNETTE MILLER	04-C24B-28
H3	JANE KIERCE	04-C24B-04
I3	WVA DEPARTMENT OF HIGHWAYS	04-C24B-03
J3	EDWARD L. THOMPSON & CAROL J. THOMPSON	04-C24B-02
K3	JEFFERY NICKOLES, RANDY NICKOLES & GREGORY NICKOLES	04-C24B-01
L3	JEFFERY O. NICKOLES	04-CC20-33.1
M3	JAMES JOHNSON & CHARLENE JOHNSON	04-CC20-43
N3	TIMOTHY J. DISERIO	04-CC20-42
O3	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC24-03
P3	WHEELING ENERGY WORKS, LTD.	04-CC24-08
Q3	EUGENE CRUNY	04-CC24-130
R3	STARVAGGI INDUSTRIES	04-CC24-129
S3	BROWNLEE LAND VENTURES	370-001-00-00-0015-00
T3	RYAN J. COOK & EMILY M. COOK	04-CC24-149
U3	KEITH J. FISCHER & DAWN MARIE FISCHER	04-CC24-152
V3	KEITH J. FISCHER & DAWN MARIE FISCHER	04-CC24-153
W3	JOSEPH M. WHITE & RACHEL E. WHITE	4-CC24-150
X3	JOSEPH M. WHITE & RACHEL E. WHITE	04-CC24-151
Y3	COREY L. PALMER & ALLYSON M. PALMER	04-CC24-143
Z3	CHAD A. SOLE & MISTY D. SOLE	4-CC29-39.20
A4	JOSEPH E. CROSS JR. & JENNIFER L. CROSS	4-CC29-39.21
B4	JOSPEH E. CROSS JR. & JENNIFER L. CROSS	04-CC29-39.17
C4	EMILY BEALL & STEPHANIE BEALL	04-CC29-39.15
D4	JOHN E. MITCHELL & JOAN R. MITCHELL	04-CC29-39.16
E4	ALFRED J. ROCCHIO JR. & SHERRY E. ROCCHIO	04-CC29-39.8
F4	ARLEY R. MITCHELL & NANCY E. MITCHELL	04-CC29-39.11
G4	DAVID H. MCCLAIN & KAREN MCCLAIN	04-CC29-39.7
H4	STATE LINE REAL ESTATE LLC	370-004-00-00-0001-00
I4	RONALD B. POWELL JR. & ROSEANNE POWELL	370-007-00-00-0002-02
J4	CHERYL BULYA	370-007-00-00-0002-01
K4	ROBERT T. MCALPINE & RHONDA M. MCALPINE	370-007-00-00-0002-04
L4	DAVID J. DEMPSTER & JOANNE K. DEMPSTER	370-007-00-00-0002-03
M4	WILLIAM TACZAK & GEORGE TACZAK	370-008-01-01-0001-01
N4	ALBERT PETRUSH & JAMIE GMITER	370-007-00-00-0002-05
O4	JOSEPH J. DEPETRO III	370-011-00-00-0009-00
P4	LISA L. JACOBS & TERRY G. JACOBS	370-011-00-00-0009-01
Q4	BELLVIEW CAMP MEETING ASSOC, LINDA HEPBURN	370-007-00-00-0003-00
R4	PAUL A. CUNNINGHAM	370-007-00-00-0004-00
S4	BROWNLEE LAND VENT, L.P.	370-011-00-00-0004-00

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
T4	BROWNLEE LAND VENTURES, L.P.	03-B34-66
U4	BROWNLEE LAND VENTURES, L.P.	03-B34-78
V4	HIGHLAND SPRINGS GOLF COURSE, LLC	03-B29-18
W4	DARREN P. MILLS	04-CC29-235
X4	L & G REALTY LLC	04-CC29-234
Y4	GARLAND E. MINOR	04-CC29-232
Z4	KEVIN A. JEFFRIES & RACHAEL M. JEFFRIES	04-CC29-230
A5	JEREMY J. KOLBA	04-CC29-229
B5	GERALD D. JACKSON	04-CC29-228
C5	GERALD D. JACKSON & JUDITH K. JACKSON	04-CC29-227
D5	MARK W. MINOR, KEVIN L. MINOR & LISA M. MINOR	04-CC29-194.1
E5	BRIAN CONNELLY & TAMMY CONNELLY	04-CC29-219
F5	HIGHLAND SPRINGS GOLF COURSE, LLC	03-B29-06
G5	CHARLES M. ROBERSON & DOROTHY ROBERSON	03-B29-05
H5	KEVIN C. KLAGES	04-CC29-217
I5	RUTH ANN STEWART & MADELON DAWN JACKSON	04-CC29-213
J5	RUTH ANN STEWART & MADELON DAWN JACKSON	04-CC29-193
K5	JAMI PACKER	04-CC29-192
L5	NORMAN C. CLAMPITT & JEANETTE K. CLAMPITT	04-CC29-190
M5	ROBERT LEE FRESHWATER	04-CC29-168
N5	MAIN DRIVE CIVIC ASSOCIATION, INC.	04-CC29-167
O5	ROBERT LEE FRESHWATER	04-CC29-166
P5	ROBERT LEE FRESHWATER	04-CC29-165
Q5	ROBERT LEE FRESHWATER	04-CC29-164
R5	CHARLES HAGLER	04-CC29-162
S5	PHILLIP E. BLANKENSHIP	04-CC29-153
T5	MARY D. GOUGHNER	04-CC29-152.1
U5	JANIS BARNA REID	04-CC29-149
V5	PAUL S. BILLIARD & CAROL A. BILLIARD - L/E KIMBERLY A. WALES, PAUL BILLIARD & TIMOTHY BILLIARD	04-CC29-148
W5	RANDY FILKINS	04-CC29-147
X5	COREY L. MAYNARD	04-CC29-146
Y5	GERALDINE A. AUBER	04-CC29-142
Z5	GERALDINE A. AUBER	04-CC29-138
A6	LORI ANN OHLER & RICK OHLER	04-CC29-137
B6	HOLLIS R. OSBORNE & DEBORAH M. OSBOURNE	04-CC29-136
C6	JAMES N. HARTZER & CAROLE G. HARTZER	04-CC29-135
D6	JERRY FLUHARTY & MARY FLUHARTY	04-CC29-133
E6	ROBERT L. YOUNG	04-CC29-132
F6	ERIC W. CAMPBELL	04-CC29-117
G6	CHARLES L. KRAFT	04-CC29-111
H6	EMILIO A. MUSCEDERE & JUDITH A. MUSCEDERE	04-CC29-53
I6	EMILIO A. MUSCEDERE & JUDITH A. MUSCEDERE	04-CC29-54
J6	JOHN H. LYLE JR. & MARY CATHERINE LYLE	04-CC29-55
K6	JOHN H. LYLE JR. & MARY CATHERINE LYLE	04-CC29-56
L6	BRIAN T. FERDA & VI-EVA FERDA	04-CC29-58
M6	BRIAN T. FERDA & VI-EVA FERDA	04-CC29-59
N6	BRIAN T. FERDA & VI-EVA FERDA	04-CC29-60
O6	GARY KUSICH & PATRICIA ELAINE KUSICH	04-CC29-61
P6	GARY KUSICH & PATRICIA ELAINE KUSICH	04-CC29-62
Q6	ROGER L. CLEM & MILDRED O. CLEM	04-CC29-63
R6	RONALD LEE HICKS & DEBRA V. HICKS	04-CC29-43
S6	ROBERT R. NEWTON JR.	04-CC29-41.1
T6	NATALIE J. PAPON	04-CC29-41
U6	KERRY W. WELSH & BARBARA A. WELSH	04-CC29-39.9
V6	JOHN E. MITCHELL & JOAN R. MITCHELL	04-CC29-39.5
W6	ELLEN CATTARUZZA	04-CC29-39
X6	EUGENE MITCHELL JR. & MARGARET MITCHELL - L/E, JESSE MITCHELL ET AL	04-CC24-126
Y6	GEORGE A. BARCHIESI & PAMELA J. BARCHIESI	04-CC24-125
Z6	GEORGE A. BARCHIESI & PAMELA J. BARCHIESI	04-CC24-122
A7	TODD P. FERGUSON & LISA FERGUSON	04-CC24-99.1
B7	TODD P. FERGUSON & LISA FERGUSON	04-CC24-120
C7	JERRY M. BOOTH & DEBRA D. BOOTH	04-CC24-119
D7	PAUL J. SICURELLA & LEA M. SICURELLA	04-CC24-118

03/19/2021

REVISIONS:	COMPANY:		
			
	OPERATOR'S STATE OF WV DNR C BRK	API: 47-009-00316	DATE: 03-01-2021
	WELL #: 6H		DRAWN BY: N. MANO
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	SCALE: N/A
		STATE: WV	DRAWING NO: WELL LOCATION PLAT 5





**JACKSON SURVEYING  
INC.**

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
E7	DAVID HUNT KINS & PATRICIA ANN KINS	04-CC24-116
F7	JEFFERY R. ADAMS & SHEILA D. ADAMS	04-CC24-115
G7	JEFFERY R. ADAMS & SHEILA D. ADAMS	04-CC24-114
H7	ARTHUR SHERICH & LEIGH ANN SHERICH	04-CC24-113
I7	DEAN SMITH	04-CC24-111
J7	DEAN SMITH	04-CC24-110
K7	DEAN SMITH	04-CC24-109
L7	PATRICK D. AMKRUM & ERIC C. ANKRUM	04-CC24-107
M7	JACK B. EARNEST JR. & LESLIE M. EARNEST	04-CC24-108
N7	MICHAEL J. CIPRIANI	04-CC24-141
O7	KEVIN L. CRAFT & MARGARET K. CRAFT	04-CC24-103
P7	SHELLY D. GAUMER	04-CC24-102
Q7	JAY THOMAS GAUMER & SHELLY DAWN GAUMER	04-CC24-99.3
R7	BRIAN TAYLOR	04-CC24-99.5
S7	BRIAN TAYLOR	04-CC24-133
T7	COREY T. CARROLL & KATELYN N. SWAGER	04-CC24-134
U7	RYAN E. HALL & NICOLE M. STANLEY	04-CC24-137
V7	JASON MICHAEL KUSIC & ALICIA RENEE KUSIC	04-CC24-136
W7	JOHN L. DAVIS & F. LYNN DAVIS	04-CC24-145
X7	JOHN L. DAVIS & F. LYNN DAVIS	04-CC24-144
Y7	LESLIE J. JOHNS & MELISSA J. JOHNS	04-CC24-140
Z7	LESLIE J. JOHNS & MELISSA J. JOHNS	04-CC24-139
A8	JUSTIN A. GRIFFITH & KERI D. GRIFFITH	04-CC24-148
B8	GARRETT AUSTIN INGRAM	04-CC24-99.7
C8	LARRY T. MAIN	04-CC24-99.8
D8	JASON D. DRUM & AMANDA R. DRUM	04-CC24-146
E8	WILLIAM L. MONK & TINA M. MONK	04-CC24-99.4
F8	JOSH R. COOK & BEVERLY A. COOK	04-CC24-97
G8	JOSH R. COOK & BEVERLY A. COOK	04-CC24-147
H8	JOSEPH M. MULLENBACH & SUSAN B. MULLENBACH	04-CC24-95
I8	JOSEPH M. MULLENBACH & SUSAN B. MULLENBACH	04-CC24-135
J8	EDWARD ROBERT MARKS III & TONI JO MARKS	04-CC24-117
K8	KEVIN M. FARRELL & HEIDI J. FARRELL	04-CC24-92
L8	KEVIN M. FARRELL & HEIDI J. FARRELL	04-CC24-91
M8	RALPH A. BRADY & KIM BRADY	04-CC24-90
N8	BRIAN L. FERGUSON & NANCY J. FERGUSON	04-CC24-89
O8	JAMES E. HUFFNER & PATRICIA HUFFNER	04-CC24-88
P8	JAMES E. HUFFNER & PATRICIA HUFFNER	04-CC24-99.6
Q8	CHRISTOPHER L. CECCHINI	04-CC24-87
R8	CHRISTOPHER L. CECCHINI & AMY CECCHINI	04-CC24-86
S8	MICHAEL SCOTT BOLEN	04-CC24-85
T8	DREW FERGUSON	04-CC24-84.1
U8	TERRI HEFFNER	04-CC24-84
V8	CHARLES WAYNE MALONEY & NANCY L. MALONEY	04-CC29-17
W8	JOHN STEVENS & LINDA STEVENS	04-CC24-56
X8	KEVIN W. KLAGES & LINDA K. KLAGES	04-CC24-52
Y8	KEVIN W. KLAGES & LINDA K. KLAGES	04-CC24-51
Z8	TERRI HEFFNER	04-CC24-49
A9	GEORGE BRADLEY	04-CC24-132
B9	DONALD LEMASTERS & JOYCE LEMASTERS	04-CC24-23

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
C9	WARREN H. MOZINGO & LINDA D. MOZINGO	04-CC24-24
D9	CALVIN G. BURDINE & HANNA M. BURDINE	04-CC24-25
E9	MARIE LAUCK	04-CC24-26
F9	WARREN H. MOZINGO & LINDA D. MOZINGO	04-CC24-27
F9	WARREN H. MOZINGO & LINDA D. MOZINGO	04-CC24-27
G9	ROBERT B. COLEMAN & SHERRY E. COLEMAN	04-CC24-28
H9	BUDDY L. TAYLOR, JR. & PATRICIA L. TAYLOR	04-CC24-29
I9	JASON R. ADAMS	04-CC24-30
J9	ROGER DALE WHITE	04-CC24-31
K9	ROGER DALE WHITE	04-CC24-32
L9	PAULETTE MCCLOUD	04-CC24-33
M9	EVA SHINGLE & RAYMOND SHINGLE	04-CC24-34
N9	EVA SHINGLE & RAYMOND SHINGLE	04-CC24-35
O9	BERNARD E. CRAWFORD & WILMA L. CRAWFORD	04-CC24-36
P9	BERNARD E. CRAWFORD & WILMA L. CRAWFORD	04-CC24-37
Q9	WILLIAM R. HUNTER & GLORIA J. HUNTER	04-CC24-38
R9	VICKIE L. SMITH	04-CC24-39
S9	JIM R MCCLOUD & MARTHA MCCLOUD	04-CC24-40
T9	JIM R MCCLOUD & MARTHA MCCLOUD	04-CC24-42
U9	JOHN O. FILLINGER	04-CC24-44
V9	RANDALL L. THOMPSON	04-CC24-45
W9	DAVID GRANT MCCLOUD & THERESA A. MCCLOUD	04-CC24-46
X9	JENNIFER TAYLOR	04-CC24-47
Y9	RANDY L. COLLINS & AMY R. COLLINS	04-CC24-17
Z9	THERESA ANN LYNCH (LE - CHARLES THORNE & ELLEN THORNE)	04-CC24-16
A10	RICHARD L. WALLACE & TRACEY WALLACE	04-CC24-14
B10	DON TAYLOR	04-CC24-06

03/19/2021

REVISIONS:	COMPANY:	 	
	OPERATOR'S	STATE OF WV DNR C BRK	API: 1403
	WELL #:	6H	DATE: 03-01-2021
	DISTRICT:	CROSS CREEK	COUNTY: BROOKE
			STATE: WV
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 6

**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
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

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: *Bailey Braucher*  
 Its: Landman - SW Appalachia

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MAR 08 2021 Page 1 of \_\_\_\_



**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  
 State of WV DNR C BRK 6H  
 Brooke County, West Virginia

✓ok

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1)	04-CC20-0006-0000	Starvaggi Industries, Incorporated	Fortune Energy, Inc. Range Resources - Appalachia, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	9/532 10/226 10/541 30/480
2)	04-CC19-0169-0000	Ridgetop Appalachia LLC, a Delaware Limited Liability Company	SWN Production Company, L.L.C.	18.00%	45/169
3)	04-CC20-0033-0000	Nickoles 3, LLC	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	18/471 30/480
4)	04-C19K-0018-0000	Wheeling & Lake Erie Railway Company, a Delaware corporation, sublessee of the Pittsburgh & West Virginia Railway Company	SWN Production Company, LLC	18.00%	53/702
5)	04-CC23-0325-0000	Golden Eagle Resources II, LLC	SWN Production Company, L.L.C.	18.00%	40/591
6)	04-CC24-0009-0000	Mark E. Vaughn and Lisa A. Vaughn, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	20/223 30/480
7)	04-CC24-0010-0000	Dennis Paul Cross, a married man dealing in his sole and separate property Raymond Scott Cross, a divorced man Kathryn Rae Butler, a single woman	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00% 18.00%	58/177 58/168 58/186
8)	04-CC24-0011-0000	Ottis T. Pettry, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	21/220 30/480
9)	04-CC24-0012-0000	Ottis T. Pettry, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	21/220 30/480
10)	04-CC24-0013-0000	Dennis Paul Cross, a married man dealing in his sole and separate property Raymond Scott Cross, divorced and unremarried  Kathryn Rae Butler, a single woman	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%  18.00% 18.00%	23/339 30/480 23/345 30/480 23/333 30/480
11)	04-CC24-0015-0000	Diana L. Allman, a single woman  Shirley Cross a/k/a Shirley McCloud, a married woman dealing in her sole and separate property Garnet Hilt, a married woman dealing in her sole and separate property Bonnie Lenkey, a married woman dealing in her sole and separate property	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 Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%  15.00% 15.00% 15.00%	13/725 30/480 13/486 30/480 14/328 30/480 14/319 30/480

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WV Department of  
Environmental Protection

OK ✓

		Gordon McCloud, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	15.00%	13/512
		Jim R. McCloud, a married man dealing in his sole and separate property	SWN Production Company, LLC		30/480
		Joan McClure, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	15.00%	13/119
		Mary Louise Wilson, a single woman	SWN Production Company, LLC		30/480
			Chesapeake Appalachia, L.L.C.	15.00%	13/516
			SWN Production Company, LLC		30/480
			Chesapeake Appalachia, L.L.C.	18.00%	56/158
12)	04-CC24-0055-0000	Jacob Wright, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	15.00%	10/568
			SWN Production Company, LLC		30/480
13)	04-CC24-0098-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	SWN Production Company, LLC		30/480
			Chesapeake Appalachia, L.L.C.	18.00%	24/298
		Kevin W. Seiple and Jill Kuhlman, husband and wife	SWN Production Company, LLC		30/480
			Chesapeake Appalachia, L.L.C.	18.00%	24/649
			SWN Production Company, LLC		30/480
14)	04-CC24-0099-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	SWN Production Company, LLC		30/480
			Chesapeake Appalachia, L.L.C.	18.00%	24/298
		Kevin W. Seiple and Jill Kuhlman, husband and wife	SWN Production Company, LLC		30/480
			Chesapeake Appalachia, L.L.C.	18.00%	24/649
			SWN Production Company, LLC		30/480
15)	04-CC24-0093-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	SWN Production Company, LLC		30/480
			Chesapeake Appalachia, L.L.C.	18.00%	24/298
		Kevin W. Seiple and Jill Kuhlman, husband and wife	SWN Production Company, LLC		30/480
			Chesapeake Appalachia, L.L.C.	18.00%	24/649
			SWN Production Company, LLC		30/480
16)	04-CC24-0142-000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	SWN Production Company, LLC		30/480
			Chesapeake Appalachia, L.L.C.	18.00%	24/298
		Kevin W. Seiple and Jill Kuhlman, husband and wife	SWN Production Company, LLC		30/480
			Chesapeake Appalachia, L.L.C.	18.00%	24/649
			SWN Production Company, LLC		30/480
17)	04-CC24-0141-000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	SWN Production Company, LLC		30/480
			Chesapeake Appalachia, L.L.C.	18.00%	24/298
			SWN Production Company, LLC		30/480

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		Kevin W. Seiple and Jill Kuhlman, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/649 30/480
18)	04-CC24-0104-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	18/791 30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/298 30/480
		Kevin W. Seiple and Jill Kuhlman, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/649 30/480
19)	04-CC24-0099-0002	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	18/791 30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/298 30/480
		Kevin W. Seiple and Jill Kuhlman, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/649 30/480
20)	04-CC24-0105-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	18/791 30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/298 30/480
		Kevin W. Seiple and Jill Kuhlman, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/649 30/480
21)	04-CC24-0106-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	18/791 30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/298 30/480
		Kevin W. Seiple and Jill Kuhlman, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/649 30/480
22)	04-CC24-0112-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	18/791 30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/298 30/480
		Kevin W. Seiple and Jill Kuhlman, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/649 30/480
23)	04-CC24-0128-0000	Ray C. Beagle and Lillian J. Beagle, his wife	Fossil Creek Ohio, LLC Gulfport Energy Corporation American Petroleum Partners Operating, LLC SWN Production Company, LLC	16.00%	29/164 31/102 32/643 576/22

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		Phil Beagle, a married man dealing in his sole and separate property	Fossil Creek Ohio, LLC Gulfport Energy Corporation American Petroleum Partners Operating, LLC SWN Production Company, LLC	16.00%	29/169 31/102 32/643 576/22
24)	04-CC24-0131-0000	Eugene H. Mitchell, Jr. and Margaret J. Mitchell, husband and wife	SWN Production Company, L.L.C.	18.00%	43/569
25)	04-CC24-0127-0000	Thomas Cole and Virginia Cole, husband and wife	SWN Production Company, L.L.C.	16.00%	37/318
26)	04-CC29-0039-0000	Golden Eagle Resources II, LLC	SWN Production Company, LLC	18.00%	40/595
27)	04-CC29-0040-0000	Jonathan G. Beall and Deanna M. Beall, husband and wife	SWN Production Company, LLC	18.00%	52/315
28)	04-CC29-0039-0001	Jeffrey D. Luck and Jane Daugherty-Luck, husband and wife	SWN Production Company, L.L.C.	18.00%	39/670
29)	04-CC29-0039-0013	Jeffrey D. Luck and Jane Daugherty-Luck, husband and wife	SWN Production Company, L.L.C.	18.00%	39/670
30)	04-CC29-0039-0002	Douglas H. Nutter and Mary D. Nutter, husband and wife	SWN Production Company, L.L.C.	16.00%	40/281
31)	04-CC29-0057-0000	Matthew H. Fair and Robin C. Fair, husband and wife Susan S. Fair, formerly known as Susan Fair Bruffy, a divorced woman Debra R. Cyphert and Robert Cyphert, wife and husband	SWN Production Company, L.L.C. SWN Production Company, L.L.C. SWN Production Company, L.L.C.	18.00% 18.00% 18.00%	40/411 40/389 40/400
32)	04-CC29-0134-0000	Robert Freshwater, a single man	SWN Production Company, L.L.C.	18.00%	46/658
33)	04-CC29-0194-0000	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, L.L.C.	18.00%	41/764
34)	04-CC29-0194-0002	Trustees of the First Presbyterian Church of Wellsburg	SWN Production Company, L.L.C.	18.00%	41/764

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May 8, 2020

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

**RE:** SWN's proposed New Well: State of WV DNR C BRK 6H in Brooke County, West Virginia, Drilling under Norfolk Ridge Road, Hill Road, Washington Pike, Spruce Road, and Camp Ground 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 Norfolk Ridge Road, Hill Road, Washington Pike, Spruce Road, and Camp Ground Road. 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,



Bailey Brougher  
Landman – SW Appalachia  
SWN Production Company, LLC

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03/19/2021



March 5, 2021

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

Ch#  
0001055787  
\$5000<sup>00</sup>  
3/2/21

**RE: Expedited Modification: State of WV DNR C BRK 6H**

Dear Mr. Brewer:

Enclosed please find the required documents to modify this well. We are wanting to shorten the lateral. This well is situated on the DNR's property in Brooke County, West Virginia.

Enclosed you will find:

- 6B
- Updated WBD
- New Plat
- Leases (The last 6 leases on the 6A1 are located in PA)

\* Updated  
Coordinates  
3/15/21  
\* WW-6A1 ✓  
3/15/21  
\* No changes to  
leases in WV

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

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