



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Tuesday, January 12, 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 the Pennsylvania Bottom Hole Location. Updated location.

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.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is positioned above the printed name and title.

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: 01/12/2021

Promoting a healthy environment.

Check# 1054029

\$5,000.00

12/15/2020

API NO. 47-009 - 00314

OPERATOR WELL NO. State of WV DNR C BRK 5H

Well Pad Name: State of WV DNR C BRK

WW-6B
(04/15)

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 x Oil Underground Storage DEC 30 2020

Other (b) If Gas Shallow x Deep Horizontal x

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- 5851', Target Base TVD- 5913'. Anticipated Thickness- 62', Associated Pressure- 3843

8) Proposed Total Vertical Depth: 5897'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 28547'

11) Proposed Horizontal Leg Length: 22488.76'

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 X

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

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'	28547'	Tail 9081x100' inside intermediate
Liners							

E-Bl 12-29-20

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:				

RECEIVED
 Office of Oil and Gas
 DEC 30 2020

WV Department of
 Environmental Protection

Southwestern Energy Company

Proposed Drilling Program

Well: STATE OF WV DNR C BRK 6 Re-entry Rig: TBD
 Field: PANHANDLE FIELD WET Prospect: Marcellus Shale
 County: BROOKE State: WV
 SHL: 40.3023 Latitude -80.5377 Longitude
 BHL: 40.2400 Latitude -80.5079 Longitude
 KB Elev: 1,016 ft MSL KB: 26 ft AGL GL Elev: 990 ft MSL



C. K. R. O
 12-29-20

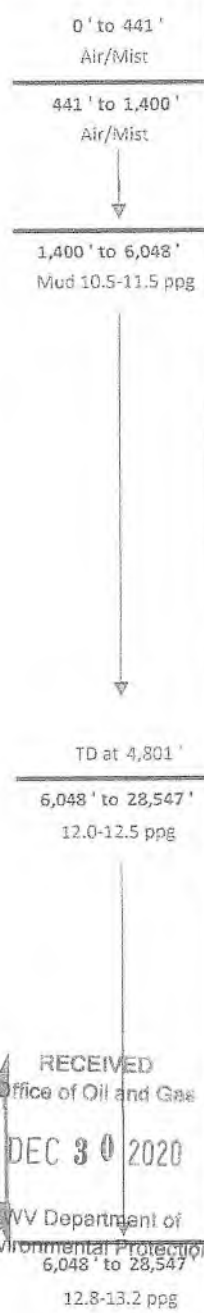
PROD TOC Lead @ 1,500' MD
 PROD TOC Tail @ 5,050' MD

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'	28,547'

CEMENT DETAIL

	Sacks	Class	Density
Conductor:	151	A	19.3
Surface:	415	A	15.6
Intermediate:	456	A	15.6
Production:	9081	A	15.0



KOP at 4,801' MD

Freshwater Depth - 371' TVD
 Coal Depth - 6' TVD
 Saltwater Depth - 575' TVD
 TVD - 5,897'
 TMD - 28,547'

5,628' TVD Target Center

TD at 28,547' MD
 5,897' TVD

EOB at 6,048' MD

EOB at 5,628' TVD

SHL Onondaga 5,644' TVD

Onondaga 5,913' TVD

RECEIVED
 Office of Oil and Gas
 DEC 30 2020
 WV Department of Environmental Protection
 6,048' to 28,547'
 12.8-13.2 ppg

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

LEGEND:		ACCESS ROAD
	PROPOSED SURFACE HOLE / BOTTOM HOLE	
	EXISTING / PRODUCING WELLHEAD	
	LPL LANDING POINT LOCATION	
	FLOOD PLAIN	

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

Latitude: 40°20'00"

SURFACE HOLE 10521'

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

3000' 0 3000'

GRAPHIC SCALE IN FEET

JACKSON SURVEYING

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

Table with 2 columns: Location Name and UTM Coordinates (Northing, Easting). Includes Surface Hole Location (SHL), Landing Point (LPL), and Bottom Hole Location (BHL).

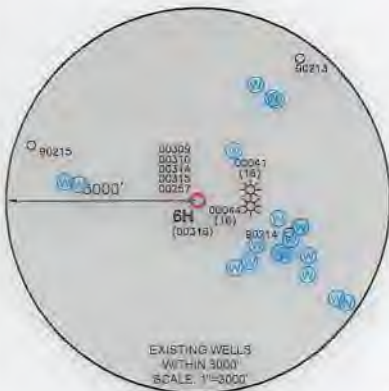
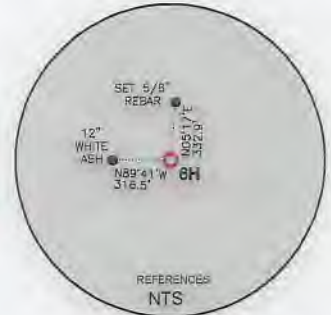


Table with 5 columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT. Contains 3 lines of survey data.

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

- 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.

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 Production Company, LLC

Table with 3 columns: Agency/Location, Accuracy/Source, and Well Information. Includes WVDEP, accuracy of 1/200, and well numbers 47, 009, 00316.

Form with fields for Well Type (Production, Deep, Gas), Watershed (North Fork Cross Creek), District (Cross Creek), Surface Owner, and Target Formation (Marcellus).

Form with fields for Well Operator (SWN Production Company, LLC) and Designated Agent (Brittany Woody).

Table with 2 columns: Legend and Revisions. Legend includes symbols for proposed holes, existing wells, LPL, water wells, and springs. Revisions include dates 06-05-2020 and 12-16-2020.

JACKSON SURVEYING
INC.

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

DETAIL "A"



REVISIONS: ▲ REVISED REFERENCES 06-05-2020 ▲ REVISED DHP 12-16-2020		COMPANY: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> SWN Production Company, LLC </div> <div style="text-align: center;"> swn Production Company™ </div> </div>	
OPERATOR'S STATE OF WV DNR C BRK		API: 47-009-00316	DATE: 03-19-2020
WELL #: 6H		DRAWN BY: N. MANO	
DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV	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"



REVISIONS: ▲ REVISED REFERENCES 06-05-2020 ▲ REVISED DHP 12-16-2020		COMPANY: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>SWN</p> <p>Production Company, LLC</p> </div> <div style="text-align: center;"> <p>SWN <i>R⁺V⁺</i></p> <p>Production Company™</p> </div> </div>	
OPERATOR'S STATE OF WV DNR C BRK WELL #: 6H		API: 47-009-00316	DATE: 03-19-2020
DISTRICT: CROSS CREEK		COUNTY: BROOKE	DRAWN BY: N. MANO
		STATE: WV	SCALE: N/A
			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 MCCLLOUD, ET AL (S)	04-CC24-15
12	GEORGE D. 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	FREDERICK C. CASALE & SUZANNE CASALE (S)	04-CC29-39.12
26	ELLEN CATTARUZZA (S)	4-CC29-39
27	MITCHELL SPURLOCK & RANA D. MITCHELL (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 D. 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
41	JOSEPH J. DEPETRO III (S)	370-011-00-00-0009-00
42	LISA L. JACOBS & TERRY G. JACOBS (S)	370-011-00-00-0009-01



ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	04-CC19-168	X	CALVIN H. MYERS JR.	380-014-00-00-0002-00
B	GRETCHEN MOORE LANGEVIN, TRUSTEE & WESTBANCO BANK INC, TRUSTEE	04-CC20-05	Y	JEFFERSON QTW EXEMPT PROPERTY	380-014-00-00-0001-00
C	JOHN ERNEST MILLER & JESSE ANDREW MILLER	04-CC20-04	Z	RANDY L. NICKOLES	380-015-00-00-0019-00
D	SUSAN D. BREEN & DENNIS M. BREEN	04-CC20-22	A2	JEFFERY O. NICKOLES	04-C24B-09
E	COLLIER'S SPORTSMAN CLUB	04-CC20-21	B2	RANDY L. NICKOLES	04-C24B-08
F	WILLIAM MORGAN ROUSE & DORIS J. ROUSE	04-CC20-20	C2	RANDY L. NICKOLES	04-C24B-33
G	LINDY L. BLACK	04-CC20-07	D2	MICHAEL OBER	4-CC24-07
H	LINDY L. GALIANO & SANTY GALIANO	04-CC20-19.1	E2	GREG NICKOLES & CAROL NICKOLES	04-C24B-12
I	EDWARD L. CARTER & DEBORAH C. CARTER	04-CC20-18	F2	GREG NICKOLES & CAROL NICKOLES	04-C24B-13
J	EDWARD L. CARTER & DEBORAH C. CARTER	04-CC20-17	G2	GREG NICKOLES & CAROL NICKOLES	04-C24B-14
K	ERIC T. GALIANO	04-CC20-16	H2	H3, LLC.	04-C24B-15
L	ERIC T. GALIANO	04-CC20-14	I2	GREG NICKOLES & CAROL NICKOLES	04-C24B-16
M	ERIC T. GALIANO	04-CC20-19	J2	CL45 MW REO I, LLC	04-C24B-20
N	KEVIN MCCONNELL	04-CC20-11	K2	JOHN MATTHEW BUCY & TABITHA BUCY	04-C24B-07
O	SUSAN KAY PRONCHIK	4-CC20-08	L2	GREGORY NICKOLES	04-C24B-06
P	BARBARA J. MCCONNELL	4-CC20-10	M2	DEBRA MCQUILLAN & ANNETTE MILLER	04-C24B-27
Q	NORFOLK & WESTERN RAILWAY CO.	04-C24B-29	O2	DEBRA MCQUILLAN & ANNETTE MILLER	04-C24B-28
R	ROBERT G. HIGGINBOTHAM JR.	04-CC20-41	O2	JANE KIERCE	04-C24B-04
S	RON GASPARENE	04-CC20-40	P2	WVA DEPARTMENT OF HIGHWAYS	04-C24B-03
T	WILLIAM & MILDRED T. MARINO	04-CC20-35	Q2	EDWARD L. THOMPSON & CAROL J. THOMPSON	04-C24B-02
U	ROBERT & DELORIS CLINE	04-CC20-34	R2	JEFFERY NICKOLES, RANDY NICKOLES & GREGORY NICKOLES	04-C24B-01
V	DEBORAH K. SLIDAY	04-CC20-32	S2	JEFFERY O. NICKOLES	04-CC20-33.1
W	STATE OF WV DNR	04-CC20-25			

REVISIONS: ▲ REVISED REFERENCES 06-05-2020 ▲ REVISED DHP 12-16-2020	COMPANY: <div style="display: flex; justify-content: space-around; align-items: center;"> </div>		
OPERATOR'S STATE OF WV DNR C BRK WELL #: 6H DISTRICT: CROSS CREEK	API: 47-009-00316 COUNTY: BROOKE STATE: WV	DATE: 03-19-2020 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			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
T2	JAMES JOHNSON & CHARLENE JOHNSON	04-CC20-43	O4	BROWNLEE LAND	370-011-00-00-0007-00
U2	TIMOTHY J. DISERIO	04-CC20-42			
V2	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC24-03	P4	RONALD BERNARD SENG & JOANNE ALICE SENG	370-011-00-00-0006-00
W2	WHEELING ENERGY WORKS, LTD.	04-CC24-08	Q4	BELLVIEW CAMP MEETING ASSOC, LINDA HEPBURN	370-007-00-00-0003-00
X2	EUGENE GRUNY	04-CC24-130	R4	PAUL A. CUNNINGHAM	370-007-00-00-0004-00
Y2	STARVAGGI INDUSTRIES	04-CC24-129			
Z2	BROWNLEE LAND VENTURES	370-001-00-00-0015-00	S4	BROWNLEE LAND VENT, L.P.	370-011-00-00-0004-00
A3	RYAN J. COOK & EMILY M. COOK	04-CC24-149	T4	BROWNLEE LAND VENTURES, L.P.	03-B34-66
B3	KEITH J. FISCHER & DAWN MARIE FISCHER	04-CC24-152	U4	BROWNLEE LAND VENTURES, L.P.	03-B34-78
C3	KEITH J. FISCHER & DAWN MARIE FISCHER	04-CC24-153	V4	HIGHLAND SPRINGS GOLF COURSE, LLC	03-B29-18
D3	JOSEPH M. WHITE & RACHEL E. WHITE	4-CC24-150	W4	DARREN P. MILLS	04-CC29-235
E3	JOSEPH M. WHITE & RACHEL E. WHITE	04-CC24-151	X4	L & G REALTY LLC	04-CC29-234
F3	THOMAS COLE & VIRGINIA COLE	04-CC24-127	Y4	GARLAND E. MINOR	04-CC29-232
G3	COREY L. PALMER & ALLYSON M. PALMER	04-CC24-143	Z4	KEVIN A. JEFFRIES & RACHAEL M. JEFFRIES	04-CC29-230
H3	CHAD A. SOLE & MISTY D. SOLE	4-CC29-39.20	A5	JEREMY J. KOLBA	04-CC29-229
I3	JOSEPH E. CROSS JR. & JENNIFER L. CROSS	4-CC29-39.21	B5	GERALD D. JACKSON	04-CC29-228
J3	JOSPEH E. CROSS JR. & JENNIFER L. CROSS	04-CC29-39.17	C5	GERALD D. JACKSON & JUDITH K. JACKSON	04-CC29-227
K3	EMILY BEALL & STEPHANIE BEALL	04-CC29-39.15	D5	MARK W. MINOR, KEVIN L. MINOR & LISA M. MINOR	04-CC29-194.1
L3	JOHN E. MITCHELL & JOAN R. MITCHELL	04-CC29-39.16	E5	BRIAN CONNELLY & TAMMY CONNELLY	04-CC29-219
M3	ALFRED J. ROCCHIO JR. & SHERRY E. ROCCHIO	04-CC29-39.8	F5	HIGHLAND SPRINGS GOLF COURSE, LLC	03-B29-06
N3	ARLEY R. MITCHELL & NANCY E. MITCHELL	04-CC29-39.11	G5	CHARLES M. ROBERSON & DOROTHY ROBERSON	03-B29-05
O3	DAVID H. MCCLAIN & KAREN MCCLAIN	04-CC29-39.7	H5	KEVIN C. KLAGES	04-CC29-217
P3	STATE LINE REAL ESTATE LLC	370-004-00-00-0001-00	I5	RUTH ANN STEWART & MADELON DAWN JACKSON	04-CC29-213
Q3	RONALD B. POWELL JR. & ROSEANNE POWELL	370-007-00-00-0002-02	J5	RUTH ANN STEWART & MADELON DAWN JACKSON	04-CC29-193
R3	CHERYL BULYA	370-007-00-00-0002-01	K5	JAMI PACKER	04-CC29-192
S3	ROBERT T. MCALPINE & RHONDA M. MCALPINE	370-007-00-00-0002-04	L5	NORMAN C. CLAMPITT & JEANETTE K. CLAMPITT	04-CC29-190
T3	DAVID J. DEMPSTER & JOANNE K. DEMPSTER	370-007-00-00-0002-03	M5	ROBERT LEE FRESHWATER	04-CC29-168
U3	WILLIAM TACZAK & GEORGE TACZAK	370-008-01-01-0001-01	N5	MAIN DRIVE CIVIC ASSOCIATION, INC.	04-CC29-167
V3	ALBERT PETRUSH & JAMIE GMITER	370-007-00-00-0002-05	O5	ROBERT LEE FRESHWATER	04-CC29-166
W3	INDEPENDENCE-EXEMPT PROPERTY, LOWER BUFFALO PRESBYTERIAN CHURCH	370-008-01-03-0002-00	P5	ROBERT LEE FRESHWATER	04-CC29-165
X3	LINDA LEA HALL	370-008-01-03-0003-00	Q5	ROBERT LEE FRESHWATER	04-CC29-164
Y3	EUGENE F. GEORGETTI & SHIRLEY L. GEORGETTI	370-008-01-03-0006-00	R5	CHARLES HAGLER	04-CC29-162
Z3	JOSEPH J. DEPETRO III	370-008-01-03-0011-00	S5	PHILLIP E. BLANKENSHIP	04-CC29-153
A4	JASON J. ATKINSON	370-008-01-03-0012-00	T5	MARY D. GOUGHNER	04-CC29-152.1
B4	KENNETH H. RUSH & SANDRA K. RUSH	370-008-01-03-0013-00	U5	JANIS BARNA REID	04-CC29-149
C4	ROBERT S. KLEM & TERESA A. KLEM	370-008-01-03-0014-00	V5	PAUL S. BILLIARD & CAROL A. BILLIARD - L/E KIMBERLY A. WALES, PAUL BILLIARD & TIMOTHY BILLIARD	04-CC29-148
D4	WALTER J. KOPKO & HOLLY A. KOPKO	370-008-01-03-0015-00	W5	RANDY FILKINS	04-CC29-147
E4	WALTER JEFFREY KOPKO & HOLLY A. KOPKO	370-008-01-03-0016-00	X5	COREY L. MAYNARD	04-CC29-146
F4	LISA M. PITTMAN	370-008-01-03-0017-00	Y5	GERALDINE A. AUBER	04-CC29-142
G4	LISA M. PITTMAN	370-008-01-03-0018-00	Z5	GERALDINE A. AUBER	04-CC29-138
H4	INDEPENDENCE-EXEMPT PROPERTY, TOWNSHIP SUPERVISORS	370-008-01-03-0019-00	A6	LORI ANN OHLER & RICK OHLER	04-CC29-137
I4	TERRY G. JACOBS JR. & SAMANTHA L. JACOBS	370-008-00-00-0008-00	B6	HOLLIS R. OSBORNE & DEBORAH M. OSBORNE	04-CC29-136
J4	ROBERT L. DEPETRO JR. & REBECCA DEPETRO	370-008-00-00-0005-00	C6	JAMES N. HARTZER & CAROLE G. HARTZER	04-CC29-135
K4	JACK M. HOPWOOD	370-011-00-00-0010-01	D6	JERRY FLUHARTY & MARY FLUHARTY	04-CC29-133
L4	PAUL A. CUNNINGHAM	370-012-00-00-0002-00	E6	ROBERT L. YOUNG	04-CC29-132
M4	GARY RUSH	370-011-00-00-0008-00	F6	ERIC W. CAMPBELL	04-CC29-117
N4	JOSEPH J. DEPETRO	370-011-00-00-0009-02	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. PAPSON	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	JOHN E. MITCHELL & JOAN R. MITCHELL	04-CC29-39.14
			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

REVISIONS: ▲ REVISED REFERENCES 06-05-2020 ▲ REVISED DHP 12-16-2020		COMPANY:  	
OPERATOR'S STATE OF WV DNR C BRK		API: 47-009-00316	
WELL #: 6H		DATE: 03-19-2020	
DISTRICT: CROSS CREEK		DRAWN BY: N. MANO	
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			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
E7	DAVID HUNT KINS & PATRICIA ANN KINS	04-CC24-116	C9	WARREN H. MOZINGO & LINDA D. MOZINGO	04-CC24-24
F7	JEFFERY R. ADAMS & SHEILA D. ADAMS	04-CC24-115	D9	CALVIN G. BURDINE & HANNA M. BURDINE	04-CC24-25
G7	JEFFERY R. ADAMS & SHEILA D. ADAMS	04-CC24-114	E9	MARIE LAUCK	04-CC24-26
H7	ARTHUR SHERICH & LEIGH ANN SHERICH	04-CC24-113	F9	WARREN H. MOZINGO & LINDA D. MOZINGO	04-CC24-27
I7	DEAN SMITH	04-CC24-111	F9	WARREN H. MOZINGO & LINDA D. MOZINGO	04-CC24-27
J7	DEAN SMITH	04-CC24-110	G9	ROBERT B. COLEMAN & SHERRY E. COLEMAN	04-CC24-28
K7	DEAN SMITH	04-CC24-109	H9	BUDDY L. TAYLOR, JR. & PATRICIA L. TAYLOR	04-CC24-29
L7	PATRICK D. AMKRUM & ERIC C. ANKRUM	04-CC24-107	I9	JASON R. ADAMS	04-CC24-30
M7	JACK B. EARNEST JR. & LESLIE M. EARNEST	04-CC24-108	J9	ROGER DALE WHITE	04-CC24-31
N7	MICHAEL J. CIPRIANI	04-CC24-141	K9	ROGER DALE WHITE	04-CC24-32
O7	KEVIN L. CRAFT & MARGARET K. CRAFT	04-CC24-103	L9	PAULETTE MC CLOUD	04-CC24-33
P7	SHELLY D. GAUMER	04-CC24-102	M9	EVA SHINGLE & RAYMOND SHINGLE	04-CC24-34
Q7	JAY THOMAS GAUMER & SHELLY DAWN GAUMER	04-CC24-99.3	N9	EVA SHINGLE & RAYMOND SHINGLE	04-CC24-35
R7	BRIAN TAYLOR	04-CC24-99.5	O9	BERNARD E. CRAWFORD & WILMA L. CRAWFORD	04-CC24-36
S7	BRIAN TAYLOR	04-CC24-133	P9	BERNARD E. CRAWFORD & WILMA L. CRAWFORD	04-CC24-37
T7	COREY T. CARROLL & KATELYN N. SWAGER	04-CC24-134	Q9	WILLIAM R. HUNTER & GLORIA J. HUNTER	04-CC24-38
U7	RYAN E. HALL & NICOLE M. STANLEY	04-CC24-137	R9	VICKIE L. SMITH	04-CC24-39
V7	JASON MICHAEL KUSIC & ALICIA RENEE KUSIC	04-CC24-136	S9	JIM R MC CLOUD & MARTHA MC CLOUD	04-CC24-40
W7	JOHN L. DAVIS & F. LYNN DAVIS	04-CC24-145	T9	JIM R MC CLOUD & MARTHA MC CLOUD	04-CC24-42
X7	JOHN L. DAVIS & F. LYNN DAVIS	04-CC24-144	U9	JOHN O. FILLINGER	04-CC24-44
Y7	LESLIE J. JOHNS & MELISSA J. JOHNS	04-CC24-140	V9	RANDALL L. THOMPSON	04-CC24-45
Z7	LESLIE J. JOHNS & MELISSA J. JOHNS	04-CC24-139	W9	DAVID GRANT MC CLOUD & THERESA A. MC CLOUD	04-CC24-46
A8	JUSTIN A. GRIFFITH & KERI D. GRIFFITH	04-CC24-148	X9	JENNIFER TAYLOR	04-CC24-47
B8	GARRETT AUSTIN INGRAM	04-CC24-99.7	Y9	RANDY L. COLLINS & AMY R. COLLINS	04-CC24-17
C8	LARRY T. MAIN	04-CC24-99.8	Z9	THERESA ANN LYNCH (LE - CHARLES THORNE & ELLEN THORNE)	04-CC24-16
D8	JASON D. DRUM & AMANDA R. DRUM	04-CC24-146	A10	RICHARD L. WALLACE & TRACEY WALLACE	04-CC24-14
E8	WILLIAM L. MONK & TINA M. MONK	04-CC24-99.4	B10	DON TAYLOR	04-CC24-06
F8	JOSH R. COOK & BEVERLY A. COOK	04-CC24-97	C10	WILLIAM C. BAIRD & CYNTHIA L. BAIRD	04-CC24-05
G8	JOSH R. COOK & BEVERLY A. COOK	04-CC24-147	D10	ALBERT JOHNS, GARY JOHNS, GREGORY JOHNS & TAMMY MOORE	04-CC23-326
H8	JOSEPH M. MULLENBACH & SUSAN B. MULLENBACH	04-CC24-95	E10	WILLIAM H. THOMPSON & DEBRA THOMPSON	04-CC23-320
I8	JOSEPH M. MULLENBACH & SUSAN B. MULLENBACH	04-CC24-135	F10	SAMUEL HUBBARD	04-CC23-318
J8	EDWARD ROBERT MARKS III & TONI JO MARKS	04-CC24-117	G10	BRIAN CORWIN	04-CC23-78
K8	KEVIN M. FARRELL & HEIDI J. FARRELL	04-CC24-92	H10	COOK FAMILY REVOCABLE TRUST	04-CC23-322
L8	KEVIN M. FARRELL & HEIDI J. FARRELL	04-CC24-91	I10	BOBBIE JO MENEELY & RANDALL MINCH	04-CC23-324
M8	RALPH A. BRADY & KIM BRADY	04-CC24-90	J10	MICHAEL W. MOORE	04-CC23-323
N8	BRIAN L. FERGUSON & NANCY J. FERGUSON	04-CC24-89	K10	JUDITH ANN MOORE	04-CC23-185
O8	JAMES E. HUFFNER & PATRICIA HUFFNER	04-CC24-88	L10	CHARLES D. MOORE & CECILIA F. MOORE	04-CC23-180
P8	JAMES E. HUFFNER & PATRICIA HUFFNER	04-CC24-99.6	M10	ROSA MARIE EDGELL	04-CC23-176
Q8	CHRISTOPHER L. CECCHINI	04-CC24-87	N10	CONSTANTINE EVANGELINOS & TOULA EVANGELINOS	04-CC23-171
R8	CHRISTOPHER L. CECCHINI & AMY CECCHINI	04-CC24-86	O10	LINDY L. GALIANO	04-CC23-170
S8	MICHAEL SCOTT BOLEN	04-CC24-85	P10	PETER D'AGOSTINO	04-CC23-188
T8	DREW FERGUSON	04-CC24-84.1	Q10	GREGORY DANIEL NICKOLES, RANDY LEE NICKOLES, JEFFREY OWN NICKOLES (DANNY NICKOLES & GRACE NICKOLES -LE)	04-CC23-160
U8	TERRI HEFFNER	04-CC24-84	R10	DAVID BAKER	04-CC19-164
V8	CHARLES WAYNE MALONEY & NANCY L. MALONEY	04-CC29-17	S10	DOUGLAS P. EMMERTH & PAMELA L. EMMERTH	04-CC19-165
W8	JOHN STEVENS & LINDA STEVENS	04-CC24-56	T10	JUDITH ANN BERNARDINI	04-CC20-09
X8	KEVIN W. KLAGES & LINDA K. KLAGES	04-CC24-52	U10	MICHAEL LEE BERNARDINI & JULIE LYNN BERNARDINI	04-CC20-44
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			

REVISIONS: Δ REVISED REFERENCES 06-05-2020 Δ REVISED DHP 12-16-2020		COMPANY:  	
OPERATOR'S STATE OF WV DNR C BRK WELL #: 6H		API: 47-009-00316	DATE: 03-19-2020 DRAWN BY: N. MANO
DISTRICT: CROSS CREEK COUNTY: BROOKE		STATE: WV	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 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"				

**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 Braugh*
 Its: Landman - SW Appalachia

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

#	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



		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
			SWN Production Company, LLC	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
		Kevin W. Seiple and Jill Kuhlman, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	24/298
			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
		Kevin W. Seiple and Jill Kuhlman, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	24/298
			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
		Kevin W. Seiple and Jill Kuhlman, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	24/298
			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
		Kevin W. Seiple and Jill Kuhlman, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	24/298
			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



		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



		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-CC29-0039-0012	Frederick C. Casale and Suzanne Casale, husband and wife	SWN Production Company, LLC	18.00%	53/49
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	SWN Production Company, L.L.C.	18.00%	40/411
		Susan S. Fair, formerly known as Susan Fair Bruffy, a divorced woman	SWN Production Company, L.L.C.	18.00%	40/389
		Debra R. Cyphert and Robert Cyphert, wife and husband	SWN Production Company, L.L.C.	18.00%	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

May 8, 2020

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

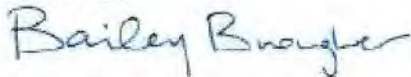
RE: SWN's proposed New Well: State of WV DNR C BRK 6H in Brooke County, West Virginia, Drilling under Norfolk Ridge Road, Hill Road, Washington Pike, Spruce Road, and Camp Ground Road.

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

