

#### west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> 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 8H

47-009-00310-00-00

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.

James A. Martin Chief

Operator's Well Number: STATE OF WV DNR C BRK 8H

Farm Name: STATE OF WV, BUREAU OF COMMERCE, DIVISIO

U.S. WELL NUMBER: 47-009-00310-00-00

Horizontal 6A New Drill Date Modification Issued: 01/12/2021

Promoting a healthy environment.

WW-6B (04/15)

# 12/15/2020

API NO. 47-009 - 00310
OPERATOR WELL NO. State of WV DNR C BRK
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	o., LLC	494512924	009-Brooke	4-Cross 62	20-Steubenville
- A		Operator ID	County	District Qu	
2) Operator's Well Number: State of WV	DNR C	BRK 8H Well Pa	ad Name: State	of WV DNR	CBRK
3) Farm Name/Surface Owner: State of	WV DN	R Public Ro	ad Access: Put	ney Ridge Ro	ad
4) Elevation, current ground: 993'	E	levation, proposed	d post-constructi	on: 990'	
5) Well Type (a) Gas x	Oil _	Un	derground Stora	ge	
Other					
(b)If Gas Shallow	X	Deep	-		
Horizontal			1	160 12.	
6) Existing Pad: Yes or No No			_ (/)	180 12.2	9.20
<ol> <li>Proposed Target Formation(s), Depth( Target Formation- Marcellus, Down-Dip Well to the South</li> </ol>					iated Pressure- 3844
8) Proposed Total Vertical Depth: 5898	1				
The state of the s	Marcellus	3	- III - III III III III III III III III		
10) Proposed Total Measured Depth: 2	8526'				
11) Proposed Horizontal Leg Length: 2	2,488.6	6'			
12) Approximate Fresh Water Strata Dep	oths:	371'			
13) Method to Determine Fresh Water D	epths:	nearby water we	ell.		
14) Approximate Saltwater Depths: 575	s' salinity	profile analysis			
15) Approximate Coal Seam Depths: 6'					RECEIVED
16) Approximate Depth to Possible Void	(coal m	ine, karst, other):	None that we	are aware of	Office of Oil and Gr
17) Does Proposed well location contain					DEC 3 0 2020
directly overlying or adjacent to an active		Yes	No	X	WV Department of
(a) If Yes, provide Mine Info: Name:					Environmental Protect
Depth:			in-		
Seam:					
Owner					

API NO. 47- 009 \_\_\_-

OPERATOR WELL NO. State of WV DNR C BRX 8H
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"		P-110 HP	24#	0,	4800'	
Production	5 1/2"	New	P-110 HP	20#	4800'	28,526'	tali 5535sx/100' inside intermediate
Liners							

C- 10 12-29-20

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated  Max. Internal  Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (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:	Office of Oil and Gas
Depths Set:	DEC 3 0 2020
	WV Department of

Environmental Protection

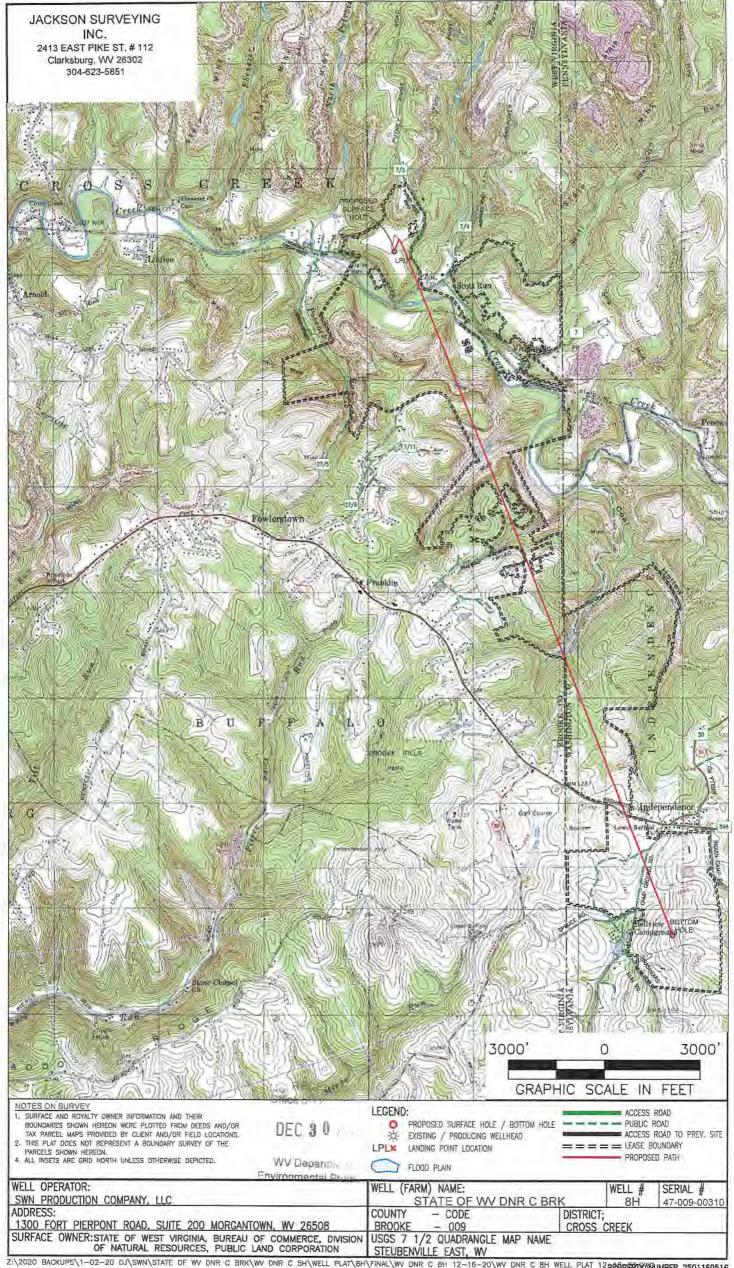
#### Southwestern Energy Company Proposed Drilling Program Well: STATE OF WV DNR CBRK 8 Re-entry Rig: TBD Field: PANHANDLE FIELD WET Prospect: Marcellus Shale County: BROOKE State: WV SHL: 40.3024 Latitude -80.5378 Longitude BHL: 40.2441 Latitude -80.5071 Longitude KB Elev: 1,016 ft MSL KB: 26 ft AGL GL Elev: 990 ft MSL 0 ' to 441 ' PROD TOC Lead @ 1,500 ' MD Air/Mist PROD TOC Tail @ 5,050 ' MD 441 to 1,400 ' Air/Mist TUBULAR DETAIL Casing Size Weight Grade Planned Interval Casing String (in) (Min) (Min) From To Cond/Coal 20 94.0# J-55 0' 100 ' 1,400 'to 6.028 ' Surface 13,375 Mud 10.5-11.5 ppg 48.0# H-40 0' 421' Intermediate 9.625 36.0# J-55 0' 1.380 6 24.0# P-110 HP 0' 4,800 Production 5.5 20.0 # P-110 HP 4.800 28,526 CEMENT DETAIL Sacks Class Density Conductor: 151 19.3 Surface: 415 15.6 Intermediate: 456 15.6 Production: 5535 15.0 TD at 5,028 KOP at 4,819 ' MD Freshwater Depth - 371 'TVD 6,028 to 28,526 ' Coal Depth - 6 'TVD 12.0-12.5 ppg Saltwater Depth - 575 'TVD TVD - 5,898 ' TMD - 28,526 1 RECEIVED Office of Oil and Gea TD at 28,526 'MD DEC 3 0 2020 5,632 'TVD Target Center 5,898 'TVD WV Department of EOB at 6,028 ' MD Environmental Protection EOB at 5,632 'TVD Onondaga 5,914 'TVD C&C @ TD 28,526' SHL Onondaga 5,648 'TVD 12.8-13.2 ppg Created by: Matt Weems on 12/11/2020

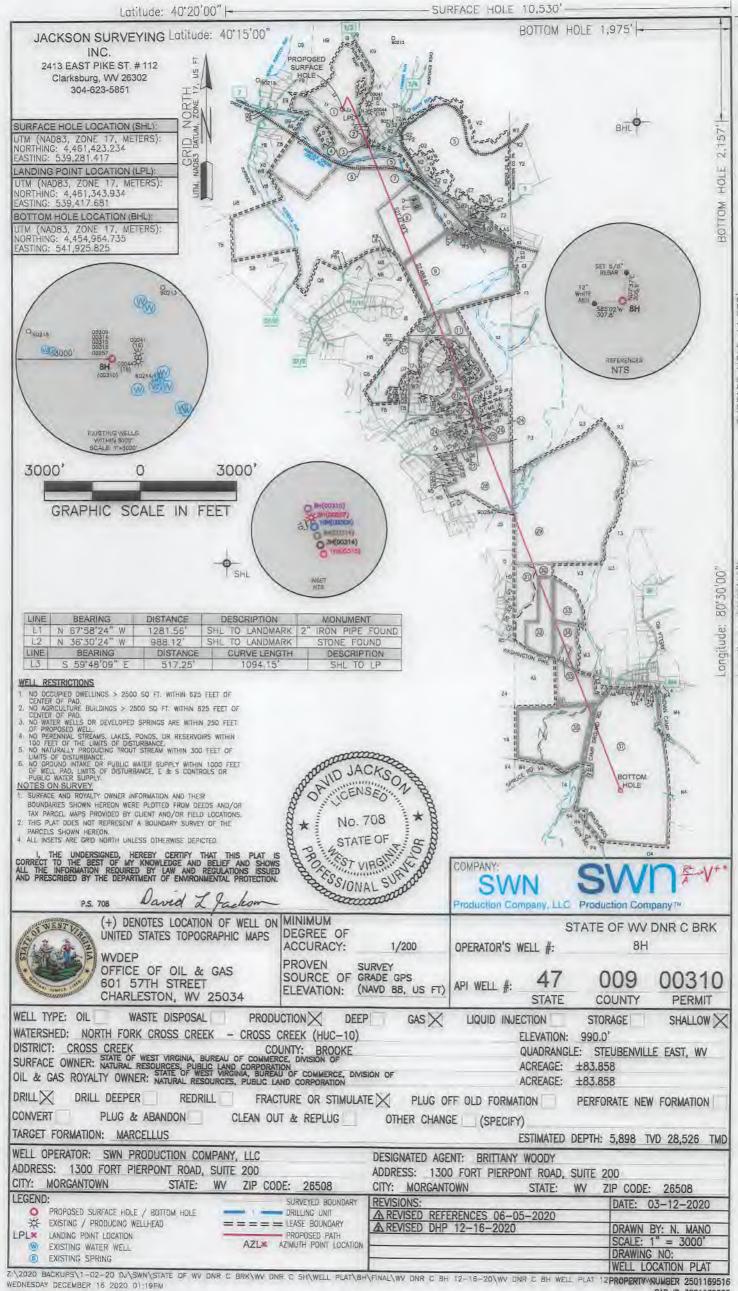
State of WV DNR C BRK 8H AOR

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated	Producing Formation
009-70046	Hope Natural Gas	Unknown			Unknown	Unknown		No Well Found
009-70047	Hope Natural Gas	Plugged			740'	Salt Sand		No Well Found
009-90216	Unknown	Abandoned			1035'	Injun Sand		No Well Found
009-30210	GIRIOWII		i					
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WV Department of Environmental Protection

RECEIVED
Office of Oil and Gas





SEE DETAIL "A"



REVISIONS:  A REVISED REFERENCES 06-05-2020  A REVISED DHP 12-16-2020	COMPANY:	SWN Production Company, LLC	SWI Production Compan	
	OPERATOR'S WELL #:	STATE OF WV DNR C BRK 8H	API: 47-009-00310	DATE: 03-12-2020  DRAWN BY: N. MANO
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT

	WELL BORE TABLE FOR SURFACE / ROYALTY	The second secon
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND	4-CC20-06
	CORPORATION (S/R)	
TRACT	SURFACE OWNER	TAX PARCEL
2	SUSAN KAY PRONCHIK (S)	4-CC20-08
3	BARBARA J. MCCONNELL (S)	4-CC20-10
4	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE,	4-CC19-169
	DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4 0013 103
5	NICKOLES 3, LLC (S)	4-CC20-33
6	NORFOLK & WESTERN RAILWAY CO. (S)	4-C19K-18
7	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC23-325
8	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE.	4-CC24-03
	DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	
9	MICHAEL OBER (S)	4-CC24-07
10	DEAN SMITH (S)	4-CC24-98
11	DEAN SMITH (S)	4-CC24-99
12	JOHN R. COOK & BEVERLY A. COOK (S)	04-CC24-97
13	WILLIAM L. MONK & TINA M. MONK (S)	4-CC24-99.4
14	BRIAN M. TAYLOR (S)	04-CC24-100
15	BRIAN TAYLOR (S)	4-CC24-99.5
	BRIAN TAYLOR (S)	4-CC24-133
16		
17	COREY T. CARROLL & KATELYN N. SWAGER (S)	4-CC24-134
18	RYAN E. HALL & NICOLE M. STANLEY (S)	4-CC24-137
19	JASON MICHAEL KUSIC & ALICIA RENEE KUSIC (S)	
20	JOHN L. DAVIS & F. LYNN DAVIS (S)	4-CC24-145
21	MICHAEL D. JONES & LOIS J. JONES (S)	4-CC24-128
22	JOSEPH M. WHITE & RACHEL E. WHITE (S)	4-CC29-39.19
23	JOSEPH M. WHITE & RACHEL E. WHITE (S)	4-CC29-39.18
24	ELLEN CATTARUZZA (S)	4-CC29-39
25	JOSEPH E. CROSS JR. & JENNIFER L. CROSS (5)	4-CC29-39.17
26	JOSEPH E. CROSS JR. & JENNIFER L, CROSS (S)	
27	DAVID H. MCCLAIN & KAREN MCCLAIN (S)	4-0029-39.7
28	DEBRA CYPHERT, MATTHEW FAIR & SUSAN BRUFFY (S)	4-CC29-57
29	STATE LINE REAL ESTATE LLC (S)	370-004-00-
		00-0001-00
30	NICOLE R. SMITH & NEAL E. SMITH (S)	370-007-00
		00-0001-02
31	RYAN M. SMITH & BROOKE N. SMITH (S)	370-007-00
		00-0001-01
32	JOSEPH D. DEPETRO III (S)	370-007-00
		00-0001-00
33	CHERYL BUTYA (S)	370-007-00
	2.2.2.2.2.2.2.4.4.4.4.4.4.4.4.4.4.4.4.4	00-0002-01
34	ROBERT G. BRIGGS & NANCY L. BRIGGS (S)	370-007-00-
27.4	2000 (0)	00-0002-00
35	ROBERT G. MCALPINE & RHONDA MCALPINE (S)	370-007-00-
00	HOBERT O. MICHELINE & KNOWDA MICHEPINE (3)	00-0002-04
36	BROWNLEE LAND VENT LP (S)	370-007-00
00	BROWNELL DAND VENT LP (3)	00-0005-00
37	INCEDE   DEDUTED III /E)	370-011-00-
3/	JOSEPH J. DEPETRO III (S)	
		00-0009-00

				00-0009-00	
	ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	LINDY L. BLACK	04-CC20-D7	Z	GREG NICKOLES & CAROL NICKOLES	Q4-C24B-14
В	JUDITH ANN BERNARDINI	04-CC20-09	A2	H3, LLC.	04-C24B-15
C	MICHAEL LEE BERNARDINI & JULIE LYNN BERNARDIN	04-CC20-44	B2	GREG NICKOLES & CAROL NICKOLES	04-C24B-16
D	LARRY E. REED	04-CC24-02	C2	RANDY L. NICKOLES	04-C24B-33
E	MICHAEL L. OBER	04-CC24-01	D2	RANDY L. NICKOLES	04-C24B-08
F	WILLIAM MORGAN ROUSE & DORIS J. ROUSE	04-CC20-20	E2	ANNETE MILLER & FRANK MCQUILLIAN & ANNA MAE MCQUILLIAN	04-C24B-07
G	LINDY L. GALIANO & SANTY GALIANO	04-CC20-19.1	F2	GREGORY NICKOLES	04-C24B-06
H	EDWARD L. CARTER & DEBORAH C. CARTER	04-CC20-18	G2	DEBRA MCQUILLAN & ANNETTE MILLER	04-C24B-27
1	EDWARD L. CARTER & DEBORAH C. CARTER	04-CC20-17	H2	DEBRA MCQUILLAN & ANNETTE MILLER	04-C24B-28
J	ERIC T. GALIANO	04-CC20-16	12	JANE KIERCE	04-C24B-04
K	ERIC T. GALIANO	04-CC20-14	J2	WVA DEPARTMENT OF HIGHWAYS	04-C24B-03
L	ERIC T. GALIANO	04-CC20-19	K2	EDWARD L. THOMPSON & CAROL J. THOMPSON	04-C24B-02
M	KEVIN MCCONNELL	04-CC20-11	L2	JEFFERY NICKOLES, RANDY NICKOLES	04-C24B-01
N	NORFOLK & WESTERN RAILWAY CO.	04-C24B-29		& GREGORY NICKOLES	100000
0	MICHAEL L. OBER	04-C24F-01	M2	JEFFERY O. NICKOLES	04-CC20-33
P	MICHAEL L. OBER	04-C24F-10	N2	JAMES JOHNSON & CHARLENE JOHNSON	04-CC20-43
Q	MICHAEL L. OBER	04-C24F-09	02	TIMOTHY J. DISERIO	04-CC20-42
R	JOSEPH SANTORO & LINA SANTORO	04-C24F-08	P2	ROBERT G. HIGGINBOTHAM JR.	04-CC20-41
S	ROBERT ANKROM & PEGGY ANKROM	04-C24F-12	Q2	RON GASPARENE	04-CC20-40
T	ROBERT ANKROM & PEGGY ANKROM	04-C24F-13	R2	WILLIAM & MILDRED T. MARINO	04-CC20-35
U	NORFOLK & WESTERN RAILWAY CO.	04-C19K-18	52	ROBERT & DELORIS CLINE	04-CC20-34
V	JAMES JOHNSON & CHARLENE JOHNSON	04-C24B-10	T2	WILLIAM MORGAN ROUSE & DORIS J. ROUSE	04-CC20-20
W	GREG NICKOLES & CAROL NICKOLES	04-C24B-11	U2	DEBORAH K. SLIDAY	04-CC20-32
X	GREG NICKOLES & CAROL NICKOLES	04-C24B-12	V2	STATE OF WV DNR	04-CC20-25
Y	GREG NICKOLES & CAROL NICKOLES	04-C24B-13	W2	CALVIN H. MYERS JR.	380-014-00-

REVISIONS:  A REVISED REFERENCES 06-05-2020  A REVISED DHP 12-16-2020	COMPANY:	SWN Production Company, LLC	SWIT Production Compan	R <sup>L</sup> →V <sup>+®</sup>
	OPERATOR'S WELL #:	STATE OF WV DNR C BRK 8H	API: 47-009-00310	DATE: 03-12-2020 DRAWN BY: N. MANO
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT 3

RACT	ADJOINING OWNERS TABLE SURFACE OWNER	TAX PARCEL	TRACT	ADJOINING OWNERS TABLE SURFACE OWNER	TAX PARCE
X2	JEFFERSON QTW EXEMPT PROPERTY	380-014-00-	P4	GARY RUSH	370-011-00
		00-0001-00		9001 110001	00-0008-00
Y2	RANDY L. NICKOLES	380-015-00-	Q4	JOSEPH J. DEPETRO	370-011-00
70	INTERENT O MOVOLEG	00-0019-00			00-0009-0
Z2 A3	JEFFERY O. NICKOLES PITTSBURGH & WVA RAILWAY CO	04-C24F-14	R4	BROWNLEE LAND	370-011-0
B3	JEFFERSON EXEMPT PROPERTY PITTSBURGH		54	DONALD DEDNADD BENG & JOANNE ALICE SENS	370-011-0
00	& WVA RAILWAY COMPANY	380-015-00-	34	RONALD BERNARD SENG & JOANNE ALICE SENG	00-0006-0
C3	PITTSBURGH & WVA RAILWAY CO	380-015-00-	T4	BELLVIEW CAMP MEETING ASSOC, LINDA HEPBURN	
	100000000000000000000000000000000000000	00-0010-00		PERSONAL PROPERTY AND	00-0003-00
D3	PITTSBURGH & WVA RAILWAY CO	380-015-00-	U4	LISA J. JACOBS & TERRY G. JACOBS	370-011-00
		00-0010-02		120/11/07/00/07/07/07/07/07/07/07/07/07/07/07/	00-0009-0
E3	WHEELING & LAKE ERIE RAILWAY	380-015-00-	V4	PAUL A. CUNNINGHAM	370-007-0
		00-0010-01			00-0004-0
F3	ROBERT ROTELLINI & ANDREA L. PUSKARICH	380-015-00-	W4	BROWNLEE LAND VENT, L.P.	370-011-0
G3	CHACKE COLLIN	00-0009-00 04-CC24-130	X4	BROWNLEE LAND VENTURES, L.P.	00-0004-0 03-834-66
H3	JASON D. DRUM & AMANDA R. DRUM	04-CC24-146	Y4	BROWNLEE LAND VENTURES, L.P.	03-834-86 03-834-78
3	LARRY T. MAIN	04-CC24-140		HIGHLAND SPRINGS GOLF COURSE, LLC	03-B29-18
J3	GARRETT AUSTIN INGRAM	04-CC24-99.7		HIGHLAND SPRINGS GOLF COURSE	370-007-0
КЗ	JUSTIN A. GRIFFITH & KERI D. GRIFFITH	04-CC24-148		THOUSE OF THESE SAST CHANGE	00-0006-0
L3	LESLIE J. JOHNS & MELISSA J. JOHNS	04-CC24-139	B5	DARREN P. MILLS	04-CC29-23
МЗ	LESLIE J. JOHNS & MELISSA J. JOHNS	04-CC24-140	C5	L & G REALTY LLC	04-CC29-23
N3	JOHN L. DAVIS & F. LYNN DAVIS	4-CC24-144	D5	GARLAND E. MINOR	04-CC29-2
03	STARVAGGI INDUSTRIES	04-CC24-129	E5.	KEVIN A. JEFFRIES & RACHAEL M. JEFFRIES	04-CC29-2
P3	BROWNLEE LAND VENTURES	370-001-00-	F5	JEREMY J. KOLBA	04-CC29-2
		00-0015-00	G5	GERALD D. JACKSON & JUDITH JACKSON	04-CC29-19
Q3	KENNETH D. VARNER JR. & CECELIA C. VARNER	370-001-00-	H5	NEAL E. SMITH & JOAN W. SMITH	04-CC29-19
D.7	DETER MOMANICULING DETERMOMANICH	370-0014-00	J5	RUTH ANN STEWART & MADELON DAWN JACKSON ROBERT LEE FRESHWATER	04-CC29-1
R3	PETER J. KLOVANISH INC., PETE KLOVANISH	00-0012-00			04-CC29-1
0.7	VENUETI D VARMED IR & CECILIA C VARMED	370-004-00-	K5 L5	JERRY FLUHARTY & MARY FLUHARTY ROBERT L. YOUNG	04-CC29-1
S3	KENNETH D. VARNER JR. & CECILIA C. VARNER	00-0002-00	M5	ERIC W. CAMPBELL	04-CC29-1
13	ANGELO F. FALCONI & PHILLIP FALCONI	370-004-00-	N5	CHARLES L. KRAFT	04-CC29-1
10	ANGELO P. PALGONI & PHILLIP PALGONI	00-0003-00	05	FMILID A. MUSCEDERE & JUDITH A. MUSCEDERE	04-CC29-5
U3	WILLIAM TACZAK & GEOGRE TACZAK	370-004-00-	P5	EMILIO A. MUSCEDERE & JUDITH A. MUSCEDERE	04-CC29-5
00	WILDIAM TACZAN AL OLOGIC MICENIA	00-0047-00	Q5	JOHN H. LYLE JR. & MARY C. LYLE	04-CC29-5
V3	RONALD B. POWELL JR. & ROSEANNE POWELL	370-007-00-	R5	JOHN H. LYLE JR. & MARY C. LYLE	04-CC29-5
		00-0002-02	S5	BRIAN T. FERDA & VI-EVA FERDA	04-CC29-5
W3	DAVID J. DEMPSTER & JOANNE K. DEMPSTER	370-007-00-	T5	BRIAN T. FERDA & VI-EVA FERDA	04-CC29-5
		00-0002-03	U5	BRIAN T. FERDA & VI-EVA FERDA	04-0029-6
Х3	WILLIAM TACZAK & GEORGE TACZAK	370-008-01-	V5	GARY KUSICH & PATRICIA ELAINE KUSICH	04-CC29-6
		01-0001-01	W5	GARY KUSICH & PATRICIA ELAINE KUSICH	04-CC29-6
Y3	ALBERT PETRUSH & JAMIE GMITER	370-007-00-	X5	ROGER L. CLEM & MILDRED O. CLEM	04-0029-63 04-0029-43
		00-0002-05	Y5	RONALD LEE HICKS & DEBRA V. HICKS	04-CC29-43
Z3	INDEPENDENCE-EXEMPT PROPERTY, LOWER	370-008-01-	Z5	ROBERT R. NEWTON JR.	04-CC29-41
	BUFFALO PRESBYTERIAN CHURCH	03-0002-00	A6 B6	NATALIE J. PAPSON MARK A. HONE & LAUREN M. HONE	04-CC29-39
A4	LINDA LEA HALL	370-008-01-			04-CC29-39
	and the second second	03-0003-00	C6	ARLEY R. MITCHELL & NANCY E. MITCHELL	04-CC29-39
B4	EUGENE F. GEORGETTI & SHIRLEY L. GEORGETTI	370-008-01-	D6	ALFRED J. ROCCHIO JR. & SHERRY E. ROCCHIO  JEFFERY LUCK & JANE DAUGHERTY-LUCK	04-CC29-39
277	Jacobil I Beneral III	03-0006-00 370-008-01-	E6	JEFFERY LUCK & JANE DAUGHERTY-LUCK	04-CC29-39
C4	JOSEPH J. DEPETRO III	03-0011-00	F6 G6	MITCHELL SPURLOCK & RANA D. MITCHELL	04-CC29-40
D.A.	JASON J. ATKINSON	370-008-01-	H6	JOHN E. MITCHELL & JOAN R. MITCHELL	04-CC29-39
D4	DASON U. AININSON	03-0012-00	16	EMILY BEALL & STEPHANIE BEALL	04-CC29-39
E4	KENNETH H. RUSH & SANDRA K. RUSH	370-008-01-	J6	CHAD A. SOLE & MISTY D. SOLE	04-CC29-39
L-4	NEMBELLI II. MOSIL & SAMPINA N. MOSIL	03-0013-00	K6	COREY L. PALMER & ALLYSON M. PALMER	04-CC24-14
F4	ROBERT S. KLEM & TERESA A. KLEM	370-008-01-	L6	PHILLIP E BLANKENSHIP	04-CC24-1
	The second of the second of the second	03-0014-00	M6	KEITH J. FISCHER & DAWN MARIE FISCHER	04-CC24-15
G4	WALTER J. KOPKO & HOLLY A. KOPKO	370-008-01-	N6	KIMBERLY L. DEFIBAUGH	04-CC24-14
		03-0015-00	06	JOHN E. MITCHELL & JOAN R. MITCHELL	04-0029-39
H4	WALTER J. KOPKO & HOLLY A. KOPKO	370-008-01-	P6	FREDERICK C. CASALE & SUZANNE CASALE	04-0029-39
		03-0016-00	Q6	THOMAS COLE & VIRGINIA COLE	04-CC24-12
14	LISA M. PITTMAN	370-008-01-	R6	EUGENE MITCHELL JR. & MARGARET MITCHELL -	04-CC24-13
		03-0017-00	55	LIFE, JESSE MITCHELL ET AL	04-CC24-1
J4	LISA M. PITTMAN	370-008-01-	S6	EUGENE MITCHELL JR. & MARGARET MITCHELL - LIFE, JESSE MITCHELL ET AL	UT 'UUZ'T-
W	MACREMACHIAE EMPLIES BAARESEN TAMAR NA	370-008-01-	76	GEORGE A. BARCHIESI & PAMELA J. BARCHIESI	04-CC24-1
K4	INDEPENDENCE-EXEMPT PROPERTY, TOWNSHIP	03-0019-00	U6	GEORGE A. BARCHIESI & PAMELA J. BARCHIESI	04-CC24-1
10-2-	SUPERVISORS		V6	TODD P. FERGUSON & LISA FERGUSON	04-CC24-9
L4	TERRY G. JACOBS JR. & SAMANTHA L. JACOBS	370-008-00-	W6	TODD P. FERGUSON & LISA FERGUSON	04-0024-1
X4.4	DODGOT   DEDETTO IS & DESCRIPTION	370-008-00	X6	JERRY M. BOOTH & DEBRA D. BOOTH	04-CC24-1
M4	ROBERT L. DEPETRO JR. & REBECCA DEPETRO	00-0005-00	Y6	PAUL J. SICURELLA & LEA M. SICURELLA	04-CC24-1
200		The Residence of the Section of the	Z6	DAVID HUNT KINS & PATRICIA ANN KINS	04-CC24-1
	JACK M HOPWOOD	3/0-011-00-	6.02		
N4	JACK M. HOPWOOD	370-011-00- 00-0010-01	A7		
	JACK M. HOPWOOD PAUL A. CUNNINGHAM		The second second	JEFFREY L. ADAMS & SHELIA D. ADAMS JEFFREY L. ADAMS & SHELIA D. ADAMS	04-CC24-1 04-CC24-1 04-CC24-1

REVISIONS:  A REVISED REFERENCES 06-05-2020 A REVISED DHP 12-16-2020	COMPANY:	SWN Production Company, LLC		<u>R</u> -V+"
	OPERATOR'S WELL #:	STATE OF WV DNR C BRK 8H	API: 47-009-00310	DATE: 03-12-2020  DRAWN BY: N. MANO
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT 4

	ADJOINING OWNERS TABLE	
RACT	SURFACE OWNER	TAX PARCEL
D7	TRAVIS SMITH	04-CC24-112
E7	DEAN SMITH	04-CC24-11
F7	DEAN SMITH	04-CC24-110
G7	DEAN SMITH	04-CC24-109
H7	STEVEN BROWN	04-CC24-99.
17	RICHARD H. SCOTT & DENA M. SCOTT	04-CC24-10
17	KEVIN L. CRAFT & MARGARET K. CRAFT	04-CC24-10.
K7	SHELLY D. GAUMER	04-CC24-102
17	JAY THOMAS GAUMER & SHELLY DAWN GAUMER	04-CC24-99.
M7		04-CC24-39.
20.00	MARK A. LAW & SANDRA K. LAW	T-100 1-10-10 10 10-10-10
N7	JOHN R. COOK & BEVERLY A. COOK	04-CC24-14
07	JOSEPH M. MULLENBACH & SUSAN B. MULLENBACH	04-CC24-95
P7	JOSEPH M. MULLENBACH & SUSAN B. MULLENBACH	04-CC24-13
Q7	MICHAEL K. MCFADDEN & SHARON MCFADDEN	04-CC24-93
R7	MICHAEL J. CIPRIANI	04-CC24-14
57	MICHAEL J. CIPRIANI	04-CC24-14
T7	JACK EARNEST & LESLIE M. EARNEST	04-CC24-13
U7	KEVIN M. FARRELL & HEIDI J. FARRELL	04-CC24-92
V7	KEVIN M. FARRELL & HEIDI J. FARRELL	04-CC24-91
W7	EDWARD ROBERT MARKS III & TONI JO MARKS	04-CC24-11
X7	RALPH A. BRADY & KIM BRADY	04-CC24-90
-		04-CC24-89
Y7	BRIAN L. FERGUSON & NANCY J. FERGUSON	
Z7	JAMES E. HUFFNER & PATRICIA HUFFNER	04-CC24-88
A8	JAMES E, HUFFNER & PATRICIA HUFFNER	04-CC24-99
B8	CHRISTOPHER L. CECCHINI	04-CC24-87
C8	CHRISTOPHER L. CECCHINI & AMY CECCHINI	04-CC24-86
D8	MICHAEL SCOTT BOLEN	04-CC24-85
E8	DREW FERGUSON	04-CC24-84
F8	TERRI HEFFNER	04-CC24-84
G8	CHARLES WAYNE MALONEY & NANCY L. MALONEY	04-CC29-17
H8	JOHN STEVENS & LINDA STEVENS	04-CC24-56
18	GEORGE L. BRADLEY	04-CC24-55
		04-CC24-13
J8	RAYMOND S. CROSS, DENNIS P. CROSS,	04-0024-15
100	& KATHRYN R. BUTLER	04 0004 00
K8	WHEELING ENERGY WORKS, LTD.	04-CC24-08
L8	MARK E. VAUGHN & LISA A. VAUGHN	04-CC24-09
M8	DAVID A. MIHLBAUER & TERI L. MIHLBAUER	04-CC24-10
N8	OTTIS T. PETTRY	04-CC24-12
80	DON TAYLOR	04-CC24-05
P8	WILLIAM C. BAIRD & CYNTHIA L. BAIRD	04-CC24-05
Q8	ALBERT D. JOHNS JR., GARY JOHNS, GREGORY JOHNS & TAMMY MOORE	04-CC23-32
R8	WILLIAM H. THOMPSON & DEBRA THOMPSON	04-CC23-32
58	SAMUEL HUBBARD	04-CC23-31
		04-CC23-78
Т8	DAVID W. HAUGHT, JOSEPH HAUGHT, YOUNG HAUGHT, CRYSTAL HOIT & BONNIE HOIT	No. of the Co.
U8	SUSAN A. MALSON, CHARLES A. COOK, CATHERINE L. WOLFE, JOHN T. COOK & BONNIE A. MCKEE, TRUSTEES OF THE COOK FAMILY TRUST REVOCABLE TRUST AGREEMENT DATED APRIL 20, 2017	04-CC23-32
V8	BOBBIE JO MENEELY & RANDALL MINCH	04-CC23-32
8W	MICHAEL W. MOORE	04-CC23-32
X8.	JUDITH ANN MOORE	04-CC19-18
Y8	CHARLES D. MOORE & CECELIA P. MOORE	04-CC19-18
Z8	ROSE MARIE EDGELL	04-CC19-17
A9	CONSTANTINE EVANGELINOS & TOULA EVANGELINOS	04-CC19-17
B9	LINDY L. GALIANO	04-CC19-17
	STATE OF WEST VIRGINIA, BUREAU OF	04-CC19-16
C9	COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	0010 10
D9	DANNY NICKOLES & GRACE NICKOLES (LIFE), GREGORY DANIEL NICKOLES, RANDY LEE NICKOLES & JEFFREY OWN NICKOLES	04-CC19-16
E9	DAVID BAKER	04-CC19-16
F9	DOUGLAS P. EMMERTH & PAMELA L. EMMERTH	04-CC19-16
G9	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	04-CC19-16
	GRETCHEN MOORE LANGEVIN, TRUSTEE &	04-CC20-05
Н9	WESTBANCO BANK INC, TRUSTEE	
H9	WESTBANCO BANK INC, TRUSTEE JOHN ERNEST MILLER & JESSE ANDREW MILLER	04-CC20-04
		04-CC20-04 04-CC20-22

REVISIONS:  A REVISED REFERENCES 06-05-2020 A REVISED DHP 12-16-2020	COMPANY:	SWN Production Company, LLC	SWI Production Compan	R <sup>L</sup> A V+ TO
	OPERATOR'S WELL #:	STATE OF WV DNR C BRK 8H	API: 47-009-00310	DATE: 03-12-2020 DRAWN BY: N. MANO
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT

WW-6A1 (5/13)

#### 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, 1 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 Brougher
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 8H Brooke County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1)	04-CC20-0006-0000	Starvaggi Industries, Incorporated	Fortune Energy, Inc.	12.50%	9/532
			Range Resources - Appalachia, LLC		10/226
		·	Chesapeake Appalachia, L.L.C.		10/541
	-		SWN Production Company, LLC		30/480
2)	04-CC20-0008-0000	John Pronchik and Susan Kay Pronchik, husband and wife	SWN Production Company, L.L.C.	17.00%	37/347
3)	04-CC20-0010-0000	Charles T. McConnell and Barbara McConnell, husband and	SWN Production Company, L.L.C.	16.00%	34/82
4)	04-CC19-0169-0000	wife Ridgetop Appalachia LLC, a Delaware Limited Liability	SWN Production Company, L.L.C.	18.00%	45/169
		Company			
5)	04-CC20-0033-0000	Nickoles 3, LLC	Chesapeake Appalachia, L.L.C.	18.00%	18/471
			SWN Production Company, LLC		30/480
6)	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
7)	04-CC23-0325-0000	Golden Eagle Resources II, LLC	SWN Production Company, L.L.C.	18.00%	40/591
3)	04-CC24-0003-0000	Starvaggi Industries, Incorporated	Fortune Energy, Inc.	12.50%	9/532
			Range Resources - Appalachia, LLC		10/226
			Chesapeake Appalachia, L.L.C.		10/541
			SWN Production Company, LLC		30/480
∌)	04-CC24-0007-0000	Michael Ober, a single man	Chesapeake Appalachia, L.L.C.	18.00%	11/385
			SWN Production Company, LLC		30/480
LO)	04-CC24-0098-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
			SWN Production Company, LLC		30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	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.	18.00%	24/649
4.	04.0004.0000.0000		SWN Production Company, LLC		30/480
11)	04-CC24-0099-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
			SWN Production Company, LLC		30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	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.	18.00%	24/649
			SWN Production Company, LLC		30/480
12)	04-CC24-0097-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
			SWN Production Company, LLC		30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	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.	18.00%	24/649
			SWN Production Company, LLC		30/480
13)	04-CC24-0099-0004	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
			SWN Production Company, LLC		30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	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.	18.00%	24/649
			SWN Production Company, LLC		30/480
14)	04-CC24-0100-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
			SWN Production Company, LLC		30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	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.	18.00%	24/649
			SWN Production Company, LLC		30/480
15)	04-CC24-0099-0005	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
			SWN Production Company, LLC		30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	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.	18.00%	24/649
			SWN Production Company, LLC		30/480
16)	04-CC24-0133-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
			SWN Production Company, LLC		30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	24/298
		Kevin W. Seiple and Jill Kuhlman, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	24/649
			SWN Production Company, LLC		30/480
17)	04-CC24-0134-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
			SWN Production Company, LLC		30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	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.	18.00%	24/649
			SWN Production Company, LLC		30/480

18)	04-CC24-0137-0000	Sharon K. Riggs, a single woman	Charanaska Annalashia I.I.C	15.00%	18/791
10,	04 0024 0137 0000	Sharon K. Niggs, a shigle worldan	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	24/298
		ciayton w. Scipic and Lisa L. Scipic, hasband and wife	SWN Production Company, LLC	18.00%	30/480
		Kevin W. Seiple and Jill Kuhlman, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	24/649
		The state of the s	SWN Production Company, LLC	10.0070	30/480
19)	04-CC24-0136-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
·		,	SWN Production Company, LLC	2010071	30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	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.	18.00%	24/649
			SWN Production Company, LLC		30/480
20)	04-CC24-0145-0000	Sharon K. Riggs, a single woman	Chesapeake Appalachia, L.L.C.	15.00%	18/791
			SWN Production Company, LLC		30/480
		Clayton W. Seiple and Lisa L. Seiple, husband and wife	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.	18.00%	24/649
			SWN Production Company, LLC		30/480
21)	04-CC24-0128-0000	Ray C. Beagle and Lillian J. Beagle, his wife	Fossil Creek Ohio, LLC	16.00%	29/164
			Gulfport Energy Corporation		31/102
			American Petroleum Partners Operating, LLC		32/363
			SWN Production Company, LLC		576/22
		Phil Beagle, a married man dealing in his sole and separate	Fossil Creek Ohio, LLC	16.00%	29/169
		property	Gulfport Energy Corporation		31/102
			American Petroleum Partners Operating, LLC		32/363
			SWN Production Company, LLC		576/22
22)	04-CC29-0039-0019	Golden Eagle Resources II, LLC	SWN Production Company, LLC	18.00%	40/595
23)	04-CC29-0039-0018	Golden Eagle Resources II, LLC	SWN Production Company, LLC	18.00%	40/595
24)	04-CC29-0039-0000	Golden Eagle Resources II, LLC	SWN Production Company, LLC	18.00%	40/595
25)	04-CC29-0039-0017	Joseph E. Cross, Jr. and Jennifer L. Cross, husband and wife	SWN Production Company, LLC	18.00%	49/786
26)	04-CC29-0039-0021	Golden Eagle Resources II, LLC	SWN Production Company, LLC	18.00%	40/595
27)	04-CC29-0039-0007	David H. McClain and Karen McClain, husband and wife	SWN Production Company, L.L.C.	16.00%	36/515
28)	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. Fa divorced w	air, formerly known as Susan Fair Bruffy, a	SWN Production Company, L.L.C.	18.00%	40/389
	Cyphert and Robert Cyphert, wife and husband	SWN Production Company, L.L.C.	18.00%	40/400



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

March 20, 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 8H in Brooke County, West Virginia, Drilling under Norfolk Creek Ridge Road, Putney Ridge Road, Hill Road, Washington Pike, Spruce Road, and Camp Ground Run 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 Creek Ridge Road, Putney Ridge Road, Hill Road, Washington Pike, Spruce Road, and Camp Ground Run 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

SWN Production Company, LLC

sailey Brought