

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

Wednesday, July 1, 2020 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit Modification Approval for ROBERT BONE BRK 205H

47-009-00288-00-00

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: ROBERT BONE BRK 205H

Farm Name: ROBERT O. BONE

U.S. WELL NUMBER: 47-009-00288-00-00

Horizontal 6A New Drill Date Modification Issued: 7/1/2020

Promoting a healthy environment.

WW-68 (M/15) API NO. 47-009

OPERATOR WELL NO. Robert Bone BRK 205H
Well Pad Name: Robert Bone BRK Pad

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

Well Operator: SWN Pro	duction Co., LLC	494512924	009-Brook	01-Buffal 247-Bethany & 62
i wen operator.		Operator ID	County	District Quadrangle
2) Operator's Well Number	Robert Bone BRK	205H Well I	ad Name Rob	ert Bone BRK Pad
3) Farm Name/Surface Owner	Robert Bone	Public R	oad Access. Hu	ukill Run Road
4) Elevation, current ground:	1148'	levation, propose	ed post-construc	tion: 1148'
5) Well Type (a) Gas X Omes	Oil	- Ur	derground Stor	age
	hallow X	Юеер	4	200
a) Existing Pad: Yes or No Y			(.	BU 6 x 2020
7) Proposed Target Formation	n(s), Depth(s), Anto	cipated Thicknes	s and Expected	Pressure(s):
Target Formation- Marcellus, Up-Dip W	Veil to the North, Target Top	TVD- 5831', Target Base	TVD- 5883', Anticipati	ed Thickness- 52', Associated Pressure- 3823
8) Proposed Total Vertical De				
9) Formanon at Total Vertica	Depth Marcellu	S		
(0) Proposed Total Measured	Depth: 24594	- topics		
(1) Proposed Horizontal Leg	Length 17819.7	8		
12) Approximate Fresh Water	Strata Depths.	344'		RECEIVED Office of Oil and Gat
13) Method to Determine Fre	sh Water Depths.	Salinity Profile		
14) Approximate Saltwater D		y Profile		JUN 1 0 2020
15) Approximate Coal Seam				WV Department of Environmental Protect
16) Approximate Depth to Po		ine, karst, other)	Possible Voi	
17) Does Proposed well locar directly overlying or adjacent	ion contain coal sea	3015		No X
(a) If Yes, provide Mine Inf	o. Name:			
	Depth:			
wk#0001051575	Seam:			
6/9/2020	Owner			The state of the s
\$5 nnn 00				

WW-68 (04/15)

APINO. 47- 009

OPERATOR WELL NO. Moder Bone BRK 2054-Well Pad Name: Robert Bone BRK Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per (t. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Fl.)*CTS
Conductor	20"	New	J-55	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	420'	420'	414 sx/CTS
Coal	See	Surface	Casing			The contract of the contract o	The second section of the section of th
Intermediate	9 5/8"	New	J-55	36#	1643'	1643'	521 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	24,594'	24,594'	Tad 4488vs* 100 toratio intermediate
Tuhing					The second secon		
Liners		Proceedings of the second second second				androide distance and an analysis of the contract of the contr	

C. - 8 6.8. 2020

33.bE	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> (in)	Burst Pressure (psi)	Anucipated Max. Internal Pressure (psi)	Cement Lype	<u>Coment</u> <u>Yield</u> (ou. ft/k)
Conductor	20"	30"	0.25	2120	81	Class A	
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	
Coal	See	Surface	Casing		Property in the self-ready or self-ready or a self-ready or self-ready o		The state of the s
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500		1.20/50% Excess
Tubing			and the second s			0.00071	
Liners			The form the second of control date of the second of the s	en e suscessiones, elles estates e ellerationes en estates elleration eller		OM - Francisco Colonia (Academica)	

	PACKERS	RECEIVED Office of Oil and Gas
Kind:		JUN 1 0 2020
Sizes:		WV Department of Environmental Protection
Depths Set:		

WW-6B (10/14) 4700900288

OPERATOR WELL NO. Robert Bone BRK 205H

Well Pad Name: Robert Bone BRK Pad

19)) Describe	proposed	well	work,	including	the	drilling a	and p	olugging	back of	f any p	ilot 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): 15.30
- 22) Area to be disturbed for well pad only, less access road (acres): 5.97
- 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 ***

Office of Oil and Gas

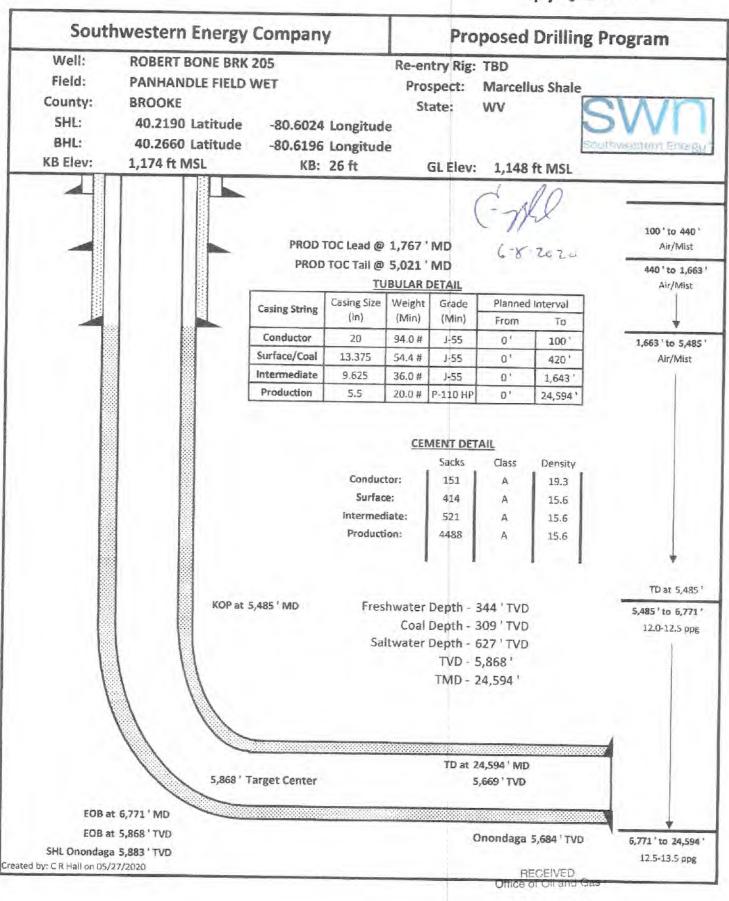
JUN 1 0 2020

WV Department of nvironmental Protoc

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.

^{*}Note: Attach additional sheets as needed.



JUN 1 0 2020

WV Department of Environmental Protection

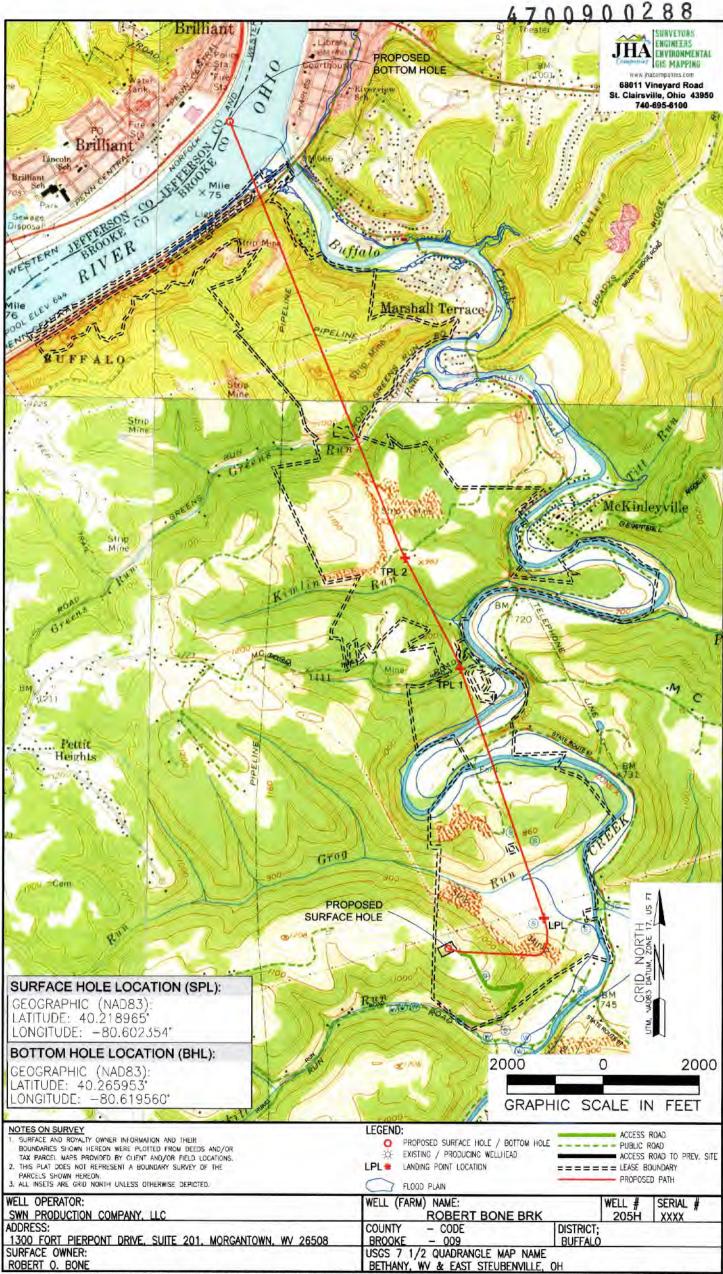
Robert Bone BRK 205H AOR

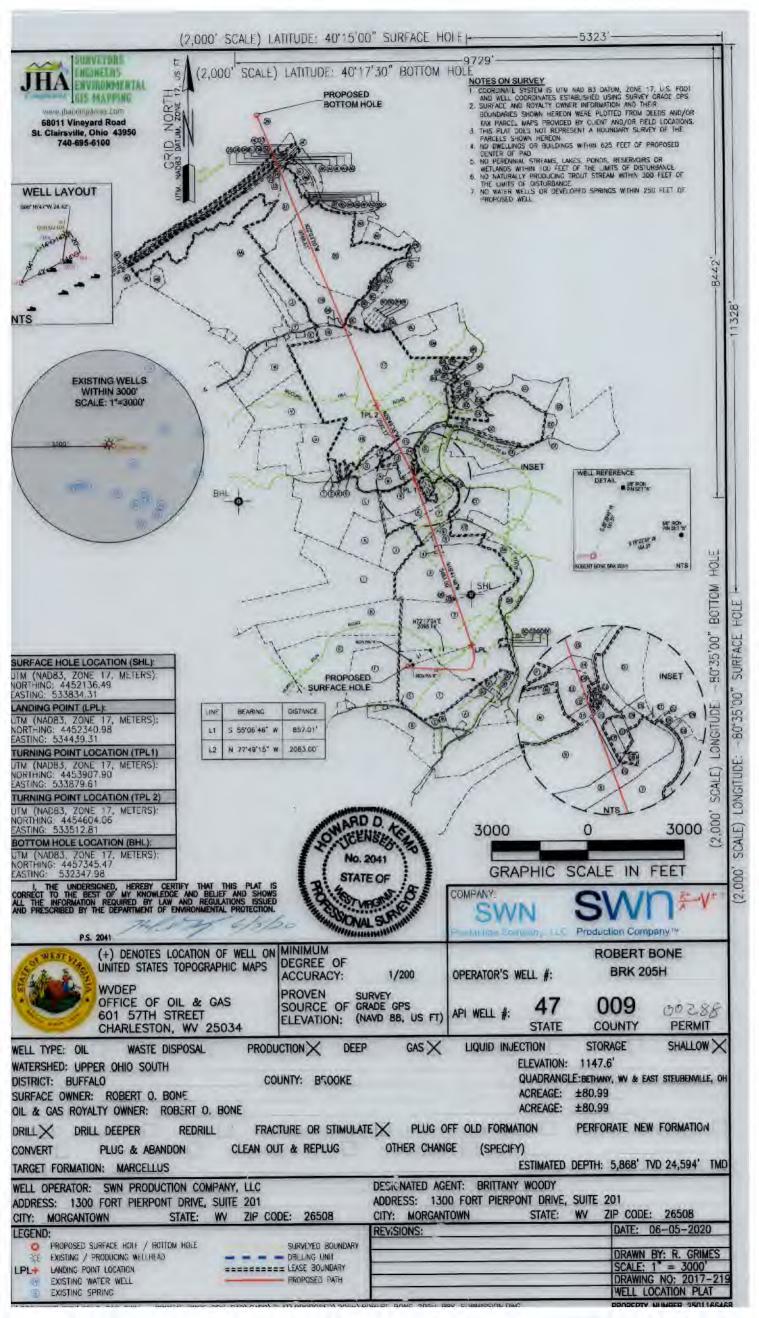
Not Perforated				
Producing Zones Not Perforated				
Latitude Longitude Vertical TD Producing Formation	MARCELLUS			
Vertical TD				
Longitude	40.219135 -80.602340 5750			
Status	ACTIVE			
Operator	309-00104 SWN PRODUCTION COMPANY, LLC ACTIVE			
API	009-00104			

Office of Oil and Gas

JUN 1 0 2020

WV Department of Environmental Protection





DRE TABLE FOR SURFACE/ROYALTY OWNERS	2000000000
VNER (S) / ROYALTY OWNER (R)	TAX PARCEL
OBERT O. BONE (S/R)	03-837-081.0
SURFACE OWNER	TAX PARCEL
M.E. & HAZEL E. JOHNSTON	03-837-050.0
MARK A. CHRISTMAN	03 B37 045.0
ONNA A, MAZZELLA ENT & PHILLIP MAZZELLA	03-837-044.0 03-837-046.0
ENT & PHILLIP MAZZELLA	03-832-128.0
PHC, & PENNYJ. MORRIS	03-B32-129.0
R. & SANDRA A. COLLINS	03-832-130.0
REBECCA L. UHLLY	03-832-139.0
VID L. & JULIE A. HALL	03-B37-136.0
ES W. & TAMMY WAGNER ND PUBLIC SERVICE DISTRICT	03-B32-193.0 03-B32-194.1
R. JOHNSON JR., LURA M. JOHNSON(F.K.A. ETTA WELLMAN, KENT WELLMAN, RANDY	03-832-194.0
N, & CHARLES LANE KILDOW	
PATRICIA WILLIAMS AMUEL H. HUBBARD	03-B32-198.0 03-B32-096.0
OBERT G. TREADWAY	03-832-188,0
APPA & COMPANY, INC	03-B3Z-009.0
APPA & COMPANY, INC	03-B32-010.0
GERTRUDE LOUISE MCSHANE	03-832-029.0
GERTRUDE LOUISE MCSHANE	03-827P-030.0
NORMA JEAN LILLY	03-827-017.0
MITED LIABILITY COMPANY	03-B27-012.0 03-B27-004.0
RGINIA, DEPARTMENT OF HIGHWAYS RGINIA, DEPARTMENT OF HIGHWAYS	STATE ROUTE 2
GREG PROVENZANO	03-827-009.0
TRANSPORTATION COMPANY	03-B27-008.0
RGINIA, DEPARTMENT OF HIGHWAYS	03-827-011.0
TRANSPORTATION COMPANY	03-B27-010.0
ATE OF WEST VIRGINA.	OHIO RIVER
ADJOINING OWNERS TABLE	- LIEU OU KANA
SURFACE OWNER	TAX PARCEL
DSA & CHRISTINE L. HEISE (SURVIVOR)	03-837-074.0
DSA & CHRISTINE L. HEISE (SURVIVOR) RENCE & SUSAN BONE	03-837-079,0
GINA M. HANEY (SURVIVOR)	03-837-077.0
HOME AND GARDENS LLC	03-637-082.0
TTHEW H, FAIR, SUSAN 5. FAIR, RICHARD HENTORN	03-837-088.0
THEW H, FAIR, SUSAN S. FAIR, RICHARD HENTORN	03-837-091.0
PPA AND COMPANY INC	03-B37-023.0
PPA AND COMPANY INC. IAMIE L. OHLER	03-837-022.0 03-837-043.0
IN D. & BRIDGET KOSUT	03-837-042.0
RG COMBINED WATER AND SEWAGE	03-832-140.2
ZON III & ERIN REBECCA NIXON	03-832-192.0
ZON III & ERIN REBECCA NIXON	03-B32-192.1
JAMES J. ALLEY	03-832-191.0
DAVID MCGOWAN BERT G. TREADWAY JR	03-B32-190.0 03-B32-189.0
CAREN L. REINACHER	03-832-187.0
BERT G. TREADWAY IR	03-832-188.0
M. & BARBAKA TREADWAY	03-832-186.0
LILLIAN MCCORD	03-832-185.0
RMS LLC, A PENNSYLVANIA LLC	03-832-019.0
SEPH VIDERMAN, ETAL	03-832-013.0
PENNY HAMILTON TILLO & RICHARD R. OSTRANDER	03-832-011.0
TILLO & RICHARD R. OSTRANDER	03-832-027.0
NDA B. WOOLWINE, ETAL	03-032-025.0
ES L. & SONDRA K ELLIOT	03-831-121.0
MITED LIABILITY COMPANY	03-831-001.0
MITED LIABILITY COMPANY	03-831,002.0
RANSPORTATION COMPANYING	03-827-003.0
ATE OF WEST VIRGINIA	BUFFALO CREEK
LWAY, SOUTH OF BUFFALO CREEK	03-B27K-212.0 03-B27K-188.0
DIANA R. MENDEL (SURVIVOR)	03-B27K-186.0
DIANE MENDEL	03-B27-013.D
ARLA ANN LOMBARDI (SURVIVOR)	03-827-016-0
DANIEL P. LOMBARDI	03-B27K-211.0
EE & PAUL DAVID FORSYTHE	03-B27K-210.0
I, & RONICA L. CRISS (SUVIVOR)	03-827K-206.0
I, & RONICA L. CRISS (SUVIVOR) YM. & BRENDA WILIAMS	03-B27K-205.1 03-B27K-204.0
Y M. & BRENDA WILIAMS	03-827K-203.0
BRENDA WILLAMS (SURVIVOR)	03-B27K-202.0
R. (1/3) & JOSEPHINE IWANYSZN (2/3)	03-B27k-189.0
R. (1/3) & JOSEPHINE IWANYSZN (2/3)	03-B27K-190.0
EDWARD MACIAK	03-B27P-031.0
NIKOLAI A. LUKSHIN (SURVIVOR)	03-B27R-050.0
RGIANN & EVERETT DAY	03-B27R-084.0
D.W. & LESA M. NICHOLSON	03-B27R Q82.0 03-B32-001.0
	03-832-001.0
GRE	& LESA M. NICHOLSON GORY DEDITCH (L/E ROBERT A. & MARIE ELIZABETH ETRUCCIOLI)

RACT	SURFACE DWNER	TAX PARCEL
BA	RONALD A. PETRUCCIOLI (L/E ROBERT A. & MARIE ELIZABETH PETRUCCIOLI)	03-832-003.0
88	GLEN A. & SUSAN L. STEWART	03-832-004.0
BC	WILLIAM R. WALNOHA	03-832-005.0
BD	WILLIAM R., CAROLYN S., & JESSICA WALNOHA	03 832-007.0
BE	DAVID B. JONES	03-832-008.0
BF	MELANIE J. LUNSFORD	03-832-072.0
BG	WILLIAM WHEAT & CARRIE HIGGS (ITWS)	03-832-071.0
ВН	WILLIAM WHEAT & CARRIE HIGGS (ITWS)	03-832-070.0
81	PATRICIA SALIVAGEOT & GLORIA PREMESA	03 832 069.0
8.1	JAY D. & KAREN SUE RECK	03-832-068.0
BK	JAY & KAREN RECK	03-832 067.0
BL	JAY D. & KAREN S. RECK (SURVIVOR)	03-B32G-067.1
BM	HERBERT MCGOWAN	03-8326-067.0
BN	VEMURI HOME & GARDENS LLC	03-B32G-001.0
90	KAY A. ELLIOT	03-8326-003.0
BP	KAY A ELLIOT	03-B32G-004.0
3Q	LARRY MICHAEL & DEBORAH RENEE REED (ITWS)	03-B32G-005.0
BR	LARRY M. & DEBORAH R REED (SURVIVOR)	03-8326-006,0
B5	STARVAGGI INDUSTRIES, INC	03 832G-063.0
BT	ROBERT F. & ANNA OHLER JOHN H. FOX	03-832G-007.0 03-832G-008.0
BV	JAMES E. & ANNETTE M. BEST	03-B32G-009.0
BW	IAMES E. & ANNETTE M. BEST	03-832G-C10-0
ВХ	MATTHEW PATRICK TOMSHACK	03-B32G-011.0
BY	MATTHEW PATRICK TOMSHACK	03-832G-088.0
82	PAUL W. & SUSAN A. FODOR	03-632-089.0
CA	MICHAEL & DELLA SEREVICZ	03-832-090.0
CB	JAMES E. & ANNETTE M. BEST	03-832-201.0
CC	ALBERT A. & LOTTIE STEWART	03-832H-050.0
CD	STARVAGGI INDUSTRIES INC	03-833-054.0
CE	SAMUEL HERVEY HUBBARD	03-832-097.0
CF	MARK & GEORGIA FEDAK	03-832-099.0
CG	MARK & GEORGIA FEDAK (SURVIVOR)	03-832-100.0
CH	MARK & GEORGIA FEDAK	03-832-101.0
CI	HARRY & JUDITH ICKES (SURVIVOR)	03-832-133.0
CI	PATRICIA WILLIAMS	03-832-134.0
CK	GARY L. GAMBILL	03-832-197.0
CL	WESLEY RINE	03-832-196.0
CM	WESLEY RINE	03-832-195.0
CN	HAMMOND PUBLIC SERVICE DISTRICT	03-832-135.0
60	DAVID L. & JULIE A. HALL (SURVIVOR)	03-832-137.1
CP	DAVID L. & JULIE A. HALL (SURVIVOR)	03-832-137.0
CQ	DAVID L. & JULIE A. HALL (SURVIVOR)	03-932-138.0
CR	KEVIN R. & SNADRA A. COLLINS (SURVIVOR)	03-832-130.1
C5	BERNARD L. & DONNA J. MILLER (SURVIVOR)	03-832-132,0
CT	BERNARD L. MILLER JR	03-832-131.0
CU	VEMURI HOME & GARDEN LLC	03-832-112.0
CW	ANDREA CUTRONE H3 LLC	03-832-113.0 03-832-114.0
_	VEMURI HOME & GARDENS LLC	03-832-115.0
CY	ROWDY T. GEORGETTI	03-832-116.0
CZ	MAZZELIA WELDING & FABRICATION INC	03-837-046.1
DA	DWARKA NATH VEMURI DBA AMERICAN HEART ASSOCIATES	03-837-047.0
DB	RICHARD RODGERS, CHERI SHARP, EDWARED O'DYER, ETAL	D3-B37-048.0
DC	WILLIAM E. & HAZEL M. JOHNSTON	03-837-053.1
DD	MARLIN G. SR & JOY CRAWFORD (SURVIVOR)	03-837-055.0
DE	BUFFALO CREEK CAMP	03-837-051.0
DF	JOHN E. & SHERRIL J. RIPLEY (SURVIVOR) (L/E WILDA RIPLEY)	03-837-062.0
DG	JOSEPH K. & GLORIA BOWMAN	0.070-758-60
DH.	JOSEPH K. SR & GLORIA J. BOWMAN (SURVIVOR)	03-837-069.1
DI	CAROLE SILVER, CAYMAN MCDONALD, JENNIFER FERGUSON, ET AL.	03-837 071,0
Di	WILLIAM E. JOHNSTON & HAZEL E. BERTY	03-837-074.1
DK	SMITH REAL ESTATE LLC	03-827-007.0
DE	SMITH REAL ESTATE LLC	03-827-006.0
DM	SMITH REAL ESTATE LLC	03-827-005.0
DN	GERTRUDE ROBIE & LOUISE MCSHANE	03-832-030.0
DO	HAMMOND PUBLIC SERVICE DISTRICT	03-637-045.1

REVISIONS:	COMPANY:	SWN	S	SWN F-V+	
	OPERATOR'S WELL #:	ROBERT BRK		DATE: 06-05-2020 DRAWN BY: R. GRIME	
	DISTRICT: BUFFALO	COUNTY: BROOKE	STATE: WV	SCALE: N/A DRAWING NO: 2017-219 WELL LOCATION PLAT	

WW-6A1 (5/13)

Operator's Well No	Cy berr	18115	both K	T. 20°

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 Co., LLC				
By:		<i>F</i> ;			
Its:	74.74 T	The state of the s			

Page 1 of



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 Robert Bone BRK 205H **EXHIBIT A**

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1)	03-0837-0081-0000-0000	Robert O. Bone	L Chesapeake Appalachia, LLC SWN Production Company, LLC	14.00%	10/424
7)	03-0837-0050-0000-0000	John L. Latimer and Angela Latimer, and Deborah Starr	1	14.00%	9/713
			Range Resources - Appalachia, LLC		20/733
			Chesapeake Appalachia, LLC		10/552
			SWN Production Company, LLC		30/480
		William E. Johnston and Hazel E. Johnston	Chesapeake Appalachia, LLC	18.00%	12/298
			SWN Production Company, LLC		30/480
3)	03-0837-0045-0000-0000	Schiappa Mary 74 Trust f/b/o Huberta A Sicilliano JP	Chesapeake Appalachia, LLC	20.00%	10/470
			SWN Production Company, LLC		30/480
		Schiappa Mary 74 Trust f/b/o Teresa Schiappa	Chesapeake Appalachia, LLC	20.00%	10/469
			SWN Production Company, LLC		30/480
4	03-0837-0044-0000-0000	Schiappa Mary 74 Trust f/b/o Huberta A Sicilliano JP	Chesapeake Appalachia, LLC	20.00%	10/470
			SWN Production Company, LLC		30/480
		Schiappa Mary 74 Trust f/b/o Teresa Schiappa	Chesapeake Appalachia, LLC	20.00%	10/469
		:	SWN Production Company, LLC		30/480
2)	03-0837-0046-0000-0000	Vivian Mazzella, a widow	Chesapeake Appalachia, LLC	18.00%	14/730
			SWN Production Company, LLC		30/480
9	03-0832-0128-0000-0000	Vivian Mazzella, a widow	Chesapeake Appalachia, LLC	18.00%	30/480
5	١٩	Joseph C. Morris and Penny J. Morris, husband and wife	Range Resources - Appalachia, LLC	12.50%	10/304
	JUN		Chesapeake Appalachia, LLC		10/552
	ECEIVED PROPERTY OF THE Protection				

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 Robert Bone BRK 205H **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 Robert Bone BRK 205H **EXHIBIT A**

		Marilyn McCord, a widow and remarried Great Lakes Energy Partners, L.L.C.	d Great Lakes Energy Partners, L.L.C.	12.50%	10/55, 27/118
			Range Resources - Appalachia, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC		20/733 10/552 30/480
9	03-0832-0136-0000-0000	David L. Hall and Julie A. Hall	Chesapeake Appalachia, LLC	18.00%	17/743
			SWN Production Company, LLC		30/480
11)	03-0832-0193-0000-0000	Frank W. Aracich and Joan C. Aracich	Chesapeake Appalachia, LLC	18.00%	18/124
			SWN Production Company, LLC		30/480
12)	03-0832-0194-0001-0000	Hammond Public Service District	SWN Production Company, LLC	18.00%	35/557
13)	03-0832-0194-0000-0000	James R. Johnson Jr and Lura M. Johnson f/k/a Lura Hoit	Chesapeake Appalachia, LLC	18.00%	18/129
			SWN Production Company, LLC		30/480
		Benita A. Stroop	SWN Production Company, LLC	14.00%	39/705
		Jeannetta Margrave	SWN Production Company, LLC	14.00%	38/717
		Kent Wellman	SWN Production Company, LLC	14.00%	38/711
41	03-0832-0198-0000-0000	Marilyn Rosetta McCord	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	18/220 30/480
15)	03-0832-0096-0000-0000	Samuel H Hubbard and Sheila Hubbard	Chesapeake Appalachia, LLC	18.00%	11/720
			SWN Production Company, LLC		30/480
16)	03-0832-0188-0000-0000	Robert G Tredway Jr, divorced	Chesapeake Appalachia, LLC	12.50%	26/585
			SWN Production Company, LLC		30/480
		Theresa Ann McCloud	Chesapeake Appalachia, LLC	12.50%	26/511
-			SWN Production Company, LLC		33/492
		Donna Jean Fulks	Chesapeake Appalachia, LLC	12.50%	26/516
			SWN Production Company, LLC		33/492

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 Robert Bone BRK 205H **EXHIBIT A**

15.50% 33/356	15.50% 33/356	18.00% 33/605	18.00% 33/605	18.00% 33/452	14.00% 24/37, 24/420	30/480	18.00% 25/377	30/480	18.00% 23/630, 24/425	30/480	18.00% 33/613	18.00% 33/457	18.00% 33/442	18.00% 35/691	18.00% 23/635, 24/181	30/480	18.00% 33/447	18.00% 25/372	30/480	18.00% 34/333, 35/134	18.00% 24/42, 24/171	30/480	18.00% 33/618	18.00% 33/462	18.00% 24/32, 24/176	30/480
15.5	15.	18.0	18.0	18.(14.0		18.(18.(18.	18.	18.0	18.0	18.0		18.	18.		18.	18.		18.	18.	18.	
SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	Chesapeake Appalachia, LLC	SWN Production Company, LLC	Chesapeake Appalachia, LLC	SWN Production Company, LLC	Chesapeake Appalachia, LLC	SWN Production Company, LLC	Chesapeake Appalachia, LLC	SWN Production Company, LLC	SWN Production Company, LLC	Chesapeake Appalachia, LLC	SWN Production Company, LLC	SWN Production Company, LLC	Chesapeake Appalachia, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	Chesapeake Appalachia, LLC	SWN Production Company, LLC				
Schiappa and Company, Inc.	Schiappa and Company, Inc.	Gertrude Louise McShane Robie and Richard Robert Robie	Gertrude Louise McShane Robie and Richard Robert Robie	Gertrude M. Nichols Burns	Shawn Catlin and Lisa Catlin		Frank Eugene Cominotti		John A. Cominotti		Robert John Gierke	Carol Lynn Gierke Harms	Sandra Gierke Kaplafa	Lisa M. Brichta	William Moran and Josie Lynn Moran		Nelson Campbell Nicholls, III	Galen H Smith Jr		Bonnie Smith	Robert Joseph Smith		Lisa J. Packard and William Packard	Phyllis Gierke Wheeler	Rita K Wineman	
03-0832-0009-0000-0000	03-0B32-0010-0000-0000	03-0832-0029-0000-0000	20) 03-0B27P-0030-0000-0000	03-0827-0017-0000-0000																	ŧ		Offic JU W I renn	N 1	1 0	20

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 Robert Bone BRK 205H **EXHIBIT A**

(77)	22) 03-0827-0012-0000-0000	HFS Limited Liability Company	Chesapeake Appalachia, LLC	18.00%	15/394
			SWN Production Company, LLC		30/480
23)	23) 03-0827-0004-0000-0000	West Virginia Department of	SWN Production Company, LLC	20%	55/301
		Transportation, Division of Highways			
24)	24) State Route 2	RIGHT OF WAY ONLY			
25)	25) 03-0827-0009-0000-0000	Greg Provenzano	SWN Production Company, LLC	18.00%	51/484
26)	26) 03-0827-0008-0000-0000	Campbell Transportation Company, Inc. SWN Production Company, LLC	SWN Production Company, LLC	18.00%	54/206
27)	27) 03-0827-0011-0000-0000	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20%	55/301
28)	28) 03-0827-0010-0000-0000	HFS Limited Liability Company	Chesapeake Appalachia, LLC	18.00%	15/394
			Jania i oddenon company, the		201 /22
29)	29) Ohio River		SWN Production Company, LLC	20%	55/479
		Commerce, Division of Natural			
		Resources			

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WV Department of Environmental Profection



P O Box 12359 Spring, Texas 77391-2359 Www.swn.com

July 18, 2018

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

RE: SWN's proposed New Well: Robert Bone BRK 205H in Brooke County, West Virginia, Drilling under Hukill Run Road, McCord Hill Road, and State Route 67.

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 Hukill Run Road, McCord Hill Road, and State Route 67. 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,

Gary Nuckolls Staff Landman

SWN Production Company, LLC

PO Box 1300

Jane Lew, WV 26378

10000 Energy Drive Spring, TX 77389-4954 المالية الموريدية

The Right People doing the Right Things. wisely investing the cash flow from our underlying Assets, will create Value+⁹

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WV Department of Environmental Protection