

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

Monday, November 2, 2020 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

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

Re: Permit Modification Approval for OV ROYALTY TRUST LLC BRK

47-009-00318-00-00

Shorten Total Measured Depth 29904' to 29613' and Lateral Length 23654.31' to 23357.53'. Updated Landing Point Coordinates

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: OV ROYALTY TRUST LLC BRK 5H

Farm Name: THE GENE CHARLES VALENTINE TRUST DATE

U.S. WELL NUMBER: 47-009-00318-00-00

Horizontal 6A New Drill

Date Modification Issued: 11/02/2020

Promoting a healthy environment.

API NO. 47-009 -	
OPERATOR WELL NO.	OV Royalty Trust LLC BRK 5H
Wall Pad Mamo: OV Ro	valty Trust LLC BRK

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

	014/51			494512924	000 0-	02.0	rose 620	Stoubenville
1) Well Operat	or: SWN	Production C	0., LLC	Operator ID	County		Della	-Steubenville
2) Operator's V	Well Numbe	OV Royalty	Trust LLC	BRK 5H Well F				
3) Farm Name/	Surface Ow	ner: The Gene Charles	Vale tine Trust di	oled 11/28/86 Public R	oad Access:	Rabbit H	II Road	
4) Elevation, co	urrent groun	id: 1181'	E	levation, propose	ed post-cons	truction: 1	181'	
5) Well Type	(a) Gas	X	Oil	Ur	derground S	Storage _		
	Other							
	(b)If Gas	Shallow	Х	Deep				
		Horizontal	Х			d.	- psl	0
6) Existing Pad	i: Yes or No	Yes					W.	
				cipated Thickness IVD-5727', Target Base			e(s).	isted Pressure- 3765
8) Proposed To	otal Vertical	Depth: 5778	3'					
9) Formation a			/larcellu	S				
10) Proposed T	otal Measu	red Depth: 2	9,613'					
11) Proposed F	Iorizontal L	eg Length: 2	3,357.5	3'				
12) Approxima	ite Fresh Wa	ater Strata Dep	oths:	396'				
13) Method to	Determine I	Fresh Water D	epths:	Salinity calculation	ons from OV	Royalty 3H	logs (AP	47-009-00094)
14) Approxima	ate Saltwate	Depths: 512	2' Salinit	y Profile				
15) Approxima	ate Coal Sea	m Depths: 23	36'					
16) Approxima	ate Depth to	Possible Voice	(coal m	ine, karst, other)	Possible	Void 236'		
(7) Does Propo directly overlyi						No X		
(a) If Yes, pro	ovide Mine	Info: Name:	Gilch	nrist and/or Labe	elle No. 3		0	RECEIVED ffice of Oil and Gas
		Depth:	236'					DCT 2 3 2020
		Seam:		burgh				WV Department of
		Owner	OVE	Royalty Trust LL	.C		Env	fronmental Protection

API NO. 47- 009

OPERATOR WELL NO. OV Royalty Trust LLC BRX 5H Well Pad Name: OV Royalty Trust LLC 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	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	450'	450'	436 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1557'	1557'	601 sx/CTS
	6"	New	HCP-110	24#	0'	5000'	
Production	5 1/2"	New	J-55	20#	5000'	29,613'	fined 644x/Tail 5196sx/100' Inside Interest
Liners							

Cr pho

TYPE	Size (in)	Wellbore Diameter (în)	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	Surface	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:	RECEIVED Office of Oil and Gas
Depths Set:	OCT 2 3 2020

WV Department of Environmental Protection

WW-6B	
(10/14)	

API NO. 47- 009 OPERATOR WELL NO. OV Royally Trust LLC BRK 5H
Well Pad Name: OV Royally Trust LLC BRK

10	Th		11		· 1	1: 41	.1:11:	1	. 1	1 1.	- C	
19	Describe	nronosea	weii	work.	incilia	aing the	ariiing a	ana n	nngging	nack -	or anv	pilot hole:

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 75' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. 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): 26.76
- 22) Area to be disturbed for well pad only, less access road (acres): 9.81
- 23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

24) Describe all cement additives associated with each cement type:

See Attachment ***

25) Proposed borehole conditioning procedures:

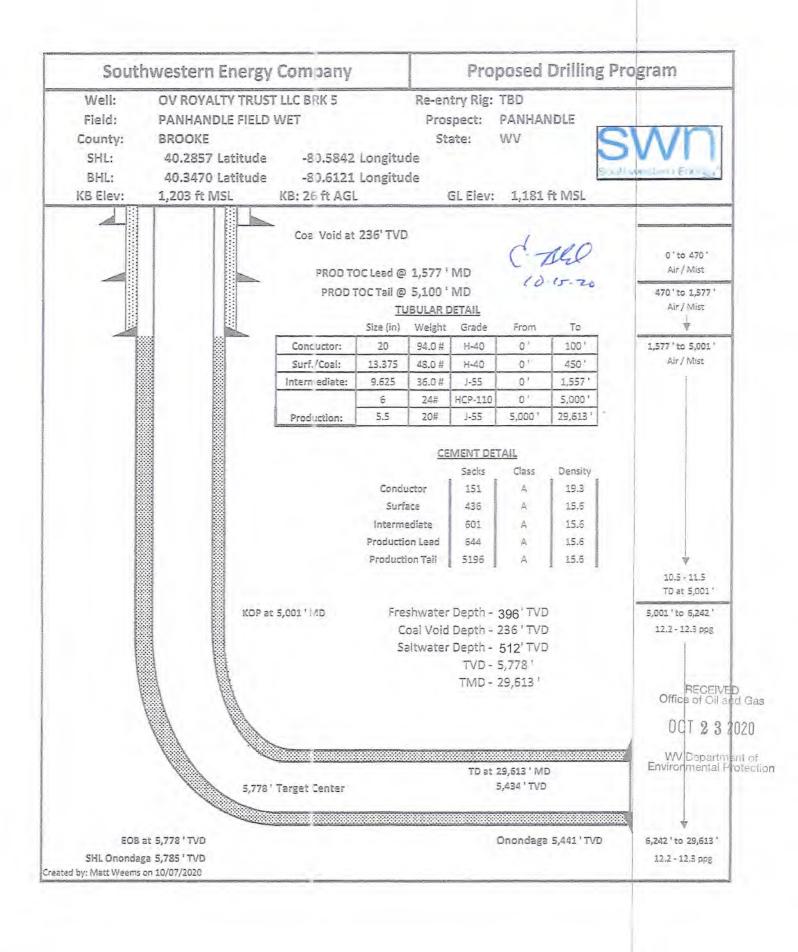
All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

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OCT 2 3 2020

WV Department of Environmental Protection

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



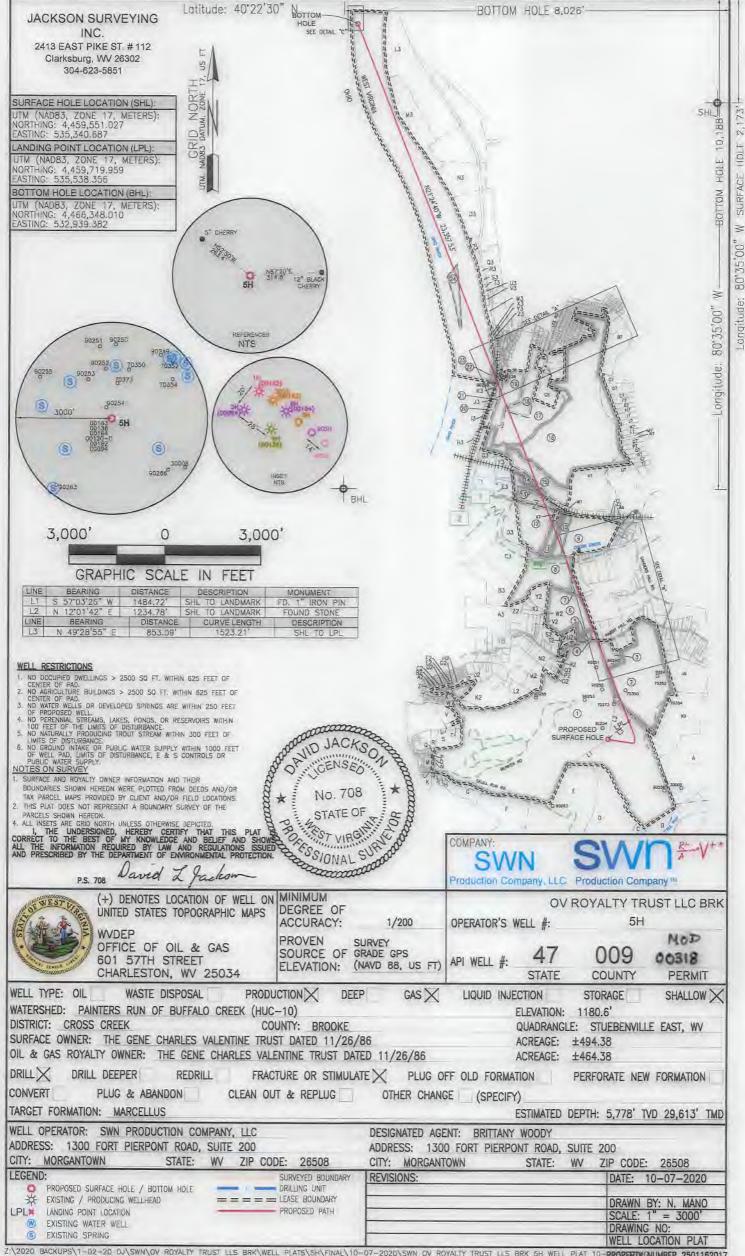
OV Royalty Trust LLC BRK 5H AOR

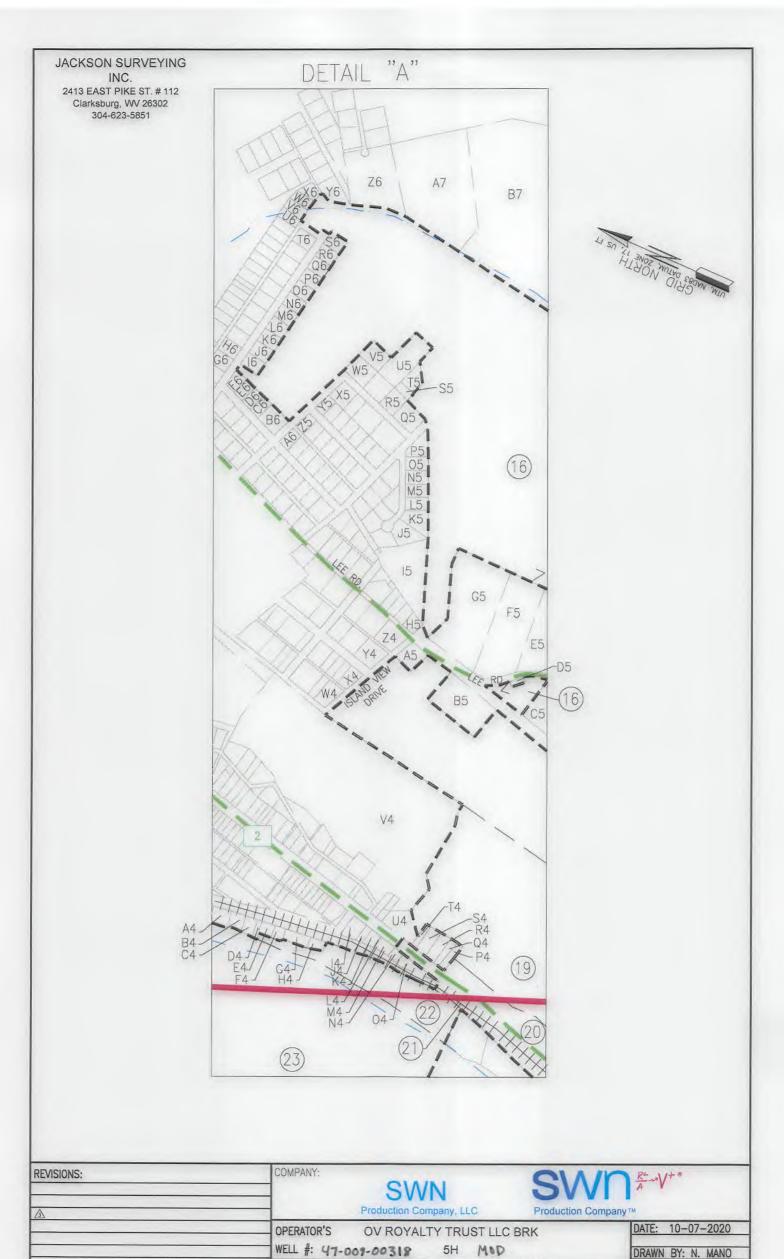
API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated	Surveyor Information
009-90238	Unknown	Unknown			Unknown	Unknown		No Wells Found
009-90239	Unknown	Unknown			Unknown	Unknown		No Wells Found
009-90250	Unknown	Unknown			Unknown	Unknown		No Wells Found
009-90251	Unknown	Unknown			Unknown	Unknown		No Wells Found
009-90252	Unknown	Unknown			Unknown	Unknown		No Wells Found
	Rockledge Oil Co.	Unknown			Unknown	Unknown		No Wells Found
009-70373	Unknown	Unknown			Unknown	Unknown		No Wells Found
009-90254	Unknown	Unknown			Unknown	Unknown		No Wells Found
		· · · · · · · · · · · · · · · · · · ·						

WV Department of Environmental Protection

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3





COUNTY: BROOKE

STATE: WV

DISTRICT: CROSS CREEK



JACKSON SURVEYING

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

TRACT	SURFACE OWNER (S) /ROYALTY OWNER (R)	TAX PARCEL
1	VALENTINE GENE CHARLES THE TRUST OF 11/26/86 (S/R)	04-CC22-41
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	KIRCHNER CHARLES; ALLEMAN JUDITH KIRCHNER ET AL (S)	04-CC23-230
3	FREEMAN LAWRENCE M SR (S)	04-CC22-25
4	MICHAUX RON ETAL (LC-JASON & DEANNA GALLOWAY) (S)	04-CC22-22
5	SNODGRASS ERIN N (S)	04-CC22-21
6	TAYLOR DONALD CJR; WILLIAMS JOAN ET AL (S)	04-CC22-20
7	GEORGE EVA (S)	04-CC18-49
8	BOYD THOMAS M;RICHARD A; DAVIDS TRUSTESS IN TRUST THOMAS J (5)	04-CC18-57
9	BOARD OF EDUCATION (S)	04-CC18-33
10	BOARD OF EDUCATION (S)	04-CC18-34
11	BOARD OF EDUCATION (S)	04-CC18-35
12	BOARD OF EDUCATION (S)	04-CC18-37
13	PITTSBURGH & WVW RAILWAY CO (S)	04-CC18-30
14	NORFOLK & WESTERN RAILWAY CO (S)	04-C19K-18
15	BOARD OF EDUCATION (S)	04-CC18-31
16	BOFFO FAMILY LIMITED PARTNERSHIP (S)	04-CC18-7
17	BOFFO FAMILY LIMITED PARTNERSHIP (S)	04-CC18-5
18	BISHOP CATHOLIC DIOCESE WHG/CHARLESTON (S)	04-CC18-2
19	GRANTONIC MARY JO & FLOYD J POGGI HRS (5)	04-CC18-14
20	STATE OF WV (S)	ROUTE 2
21	NORFORLK SOUTHERN RAILWAY COMPANY (S)	RAILROAD
22	BELLAIRE HARBOR SERVICE LLC (LC-REBECCA JOHNSON) (S)	05-F18C-04
23	STATE OF WV (S)	OHIO RIVER
24	BUSINESS DEVELOPMENT CORP OF THE NORTHERN PANHANDLE (S)	05-F14L-181

	ADJOINING OWNERS TABLE						
TRACT	Surface owners	TAX PARCE					
A	LUNSFORD JAMES	04-CC23-203					
В	SCHIAPPA AND COMPANY INC	04-CC28-2					
c	TRAUBERT JOHN W & NANCY	04-CC23-234					
D	LISH PAUL & PATRICIA ANN(SURV)	04-CC22-50					
E	OV ROYALTY TRUST LLC	04-CC22-49					
F	CONAWAY RONALD, DONALD; PATRICIA	04-CC22-47					
G	DONINI SAMUEL J & MELANIE A(SURV)	04-CC22-45					
H	MCGOWAN LOUIS M & TINA L(SURV)	04-CC22-44					
1	MCGOWAN LOUIS M	04-CC22-43					
1	TENNANT RODNEY LEE	04-CC22-42					
K	BOBER JOHN CIII & JENNIFER R (SURV)	07-W22L-18					
L	UNKNOWN OWNER	07-W22L-17					
M	FRYER RICHARD L	07-W22L-11					
N	ICE CHRISTINE L	07-W22L-8					
0	ICE CHRISTINE L	07-W22L-9					
Р	ICE CHRISTINE L	07-W22L-10					
Q	CLEMONS LARRY N & SANDRA K	07-W22L-4					
R	UNKNOWN OWNER	07-W22L-5					
S	RIGGS WILLIAM	04-C22G-82					
T	ZAMPINI ROBERT J	04-C22G-81					
U	ZAMPINI ROBERT J	04-C22G-80					
V	MILLER FRANK & CONNIE	04-C22G-79					
W	COLLEY JACKIE RAY & ROBERTA G	04-C22G-64					
X	COLLEY JACKIE & ROBERTA	04-C22G-63					
Y	FRAGALE FRANKLIN	07-W22G-7					
Z	WHITE JOHN; ROBERT; FREY SHARON; LE-KATHRYN, JEFFREY & RALPH WHITE	07-W22G-5					
A2	WHITE JOHN; ROBERT; FREY SHARON; LE-KATHRYN, JEFFREY & RALPH WHITE	04-C22G-8					
B2	ROTHWELL DAVID R & WYNONNA	04-C22G-19					
C2	BASSETT JOHN KELLY SR & MARSHA L	04-C22G-20					
D2	FOWLER JUDITH L	04-C22G-31					
E2	PRICE VIRGINIA	04-C22G-33					
F2	ENNIS GEORGE; (LC JOSEPH A HARBIN & CROSS CHANNING M)	04-C22G-44					
G2	ENNIS GEORGE F; (LC JOSEPH A HARBIN & CROSS CHANNING M)	04-C22G-45					
H2	MILLER EARL W JR	04-C22G-46					
12	KOSCEVIC MARK	04-C22G-32					
J2	SMITH TERRY L & LORA J	04-C22C-122					
К2	CARUSO FRANK & LISA C (SURV)	04-C22G-60					
L2	BOGGS CHARLES R	04-C22G-57					
M2	ISINGHOOD CHARLES SR	04-CC22-32					
N2	GEORGE JIMMIE D & ROBIN J	04-CC22-31					
02	ADAMS DALE E & MARY K (SURV)	04-CC22-30					
P2	DIPASQUALE STEVEN P & MARCY (SURVIVOR)	04-CC22-26					
Q2	MITCHELL SCOTT E	04-CC22-27					
R2	BEATTY JAY M & BARBRA	04-CC22-28					

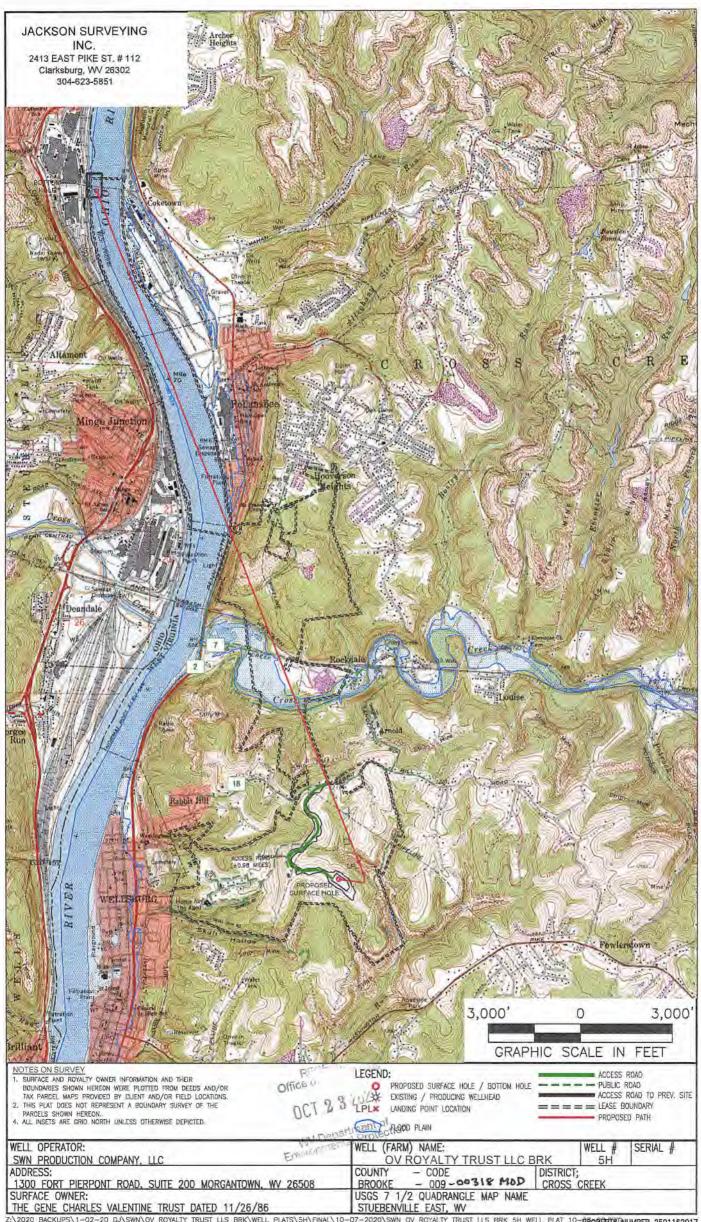
TRACT	ADJOINING OWNERS TABLE Surface owners	TAX PARCEL
	CLEM DONALD E SR & LINDA A (SURV)	04-CC22-19
52		
12 U2	TAYLOR DUANE & DANA (SURVIVORSHIP)	04-CC22-20.2
	TAYLOR DUANE EDWARD & DANA ANN (SURV)	04-CC22-20.1
V2	LOUDIN ROBERT E	04-CC22-13
W2	TAYLOR DUANE R	04-CC22-02
X2	CARBASHO DAVE & STEPHANIE (SURV)	04-CC18-56
Y2	BARTZ MARTIN J JR	04-CC18-55
72	REED CAROL	04-CC22-01
A3	PRICE EARL D; ROSSER LINDA L (SURV)	04-C22C-163
B3	NURIVI MYRTLE COX (1/4 INT) & OTHERS (3/4 INT)	04-CC18-39
C3	BOYD THOMAS M; RICHARD A;	04-CC18-58
D3	UNITED STATES OF AMERICA	04-CC18-38
E3	PITTSBURGH & WVA RAILWAY CO	04-CC18-29
F3	NORFOLK & WESTERN RAILWAY CO	04-CC18-28
G3	PITTSBURGH & WVA RAILWAY CO	04-CC18-27
НЗ	PITTSBURGH & WVA RAILWAY CO	04-CC18-21
13	BELLAIRE HARBOR SERVICES LLC (LE-REBECCA JOHNSON)	04-CC18-20
J3	BELLAIRE HARBOR SERVICES LLC (LE-REBECCA JOHNSON)	04-CC18-19
КЗ	BELLAIRE HARBOR SERVICES LLC (LE-REBECCA JOHNSON)	04-CC18-18
L3	MOUNTAIN STATE CARBON LLC	05-0F10-14.3
M3	KOPPERS INDUSTRIES INC	05-0F14-01
N3	TRIMODAL TERMINAL LP	05-F14G-01
03	TRIMODAL TERMINAL LP	05-F14G-133
P3	TRIMODAL TERMINAL LP	05-F14L-01
Q3	WHEELING NISSHIN INC	05-F14L-03
R3	FOLLANSBEE CITY OF	05-F14L-03.1
53	FOLLANSBEE CITY OF	05-F14L-04
T3	FOLIANSBEE CITY OF	05-F14R-01
U3	FOLLANSBEE CITY OF	05-F14R-02
V3	WHEELING NISSHIN INC	05-F14R-03.1
W3	BUSINESS DEVELOPMENT CORP OF THE NORTHERN PANHANDLE	05-F14R-03
X3	BUSINESS DEVELOPMENT CORP OF THE NORTHERN PANHANDLE	05-F14R-58
Y3	BUSINESS DEVELOPMENT CORP OF THE NORTHERN PANHANDLE	05-F14R-59
Z3	FOLLANSBEE CITY OF	05-F14R-60
A4	BUSINESS DEVELOPMENT CORP OF THE NORTHERN PANHANDLE	05-F14R-61
B4	BUSINESS DEVELOPMENT CORP OF THE NORTHERN PANHANDLE	05-F14R-62
C4	BUSINESS DEVELOPMENT CORP OF THE NORTHERN PANHANDLE	05-F14R-63
D4	BAIRD WILLIAM CIII & CYNTHIA (SURV)	05-F14R-64
E4	BAIRD WILLIAM CITI & CYNTHIA (SURV)	05-F14R-65
F4	LODGE RONALD G	05-F14C-01
G4	SHUTE CHARLES L & CATHERINE (SURV)	05-F14C-02
H4	SHUTE BRIAN P	05-F14C-03
14	YEATER BROOKS	05-F18C-10
J4	BENZO SYLVIA J	05-F18C-09
K4	BENZO SYLVIA J	05-F18C-08
L4	ALLMAN RENEE M	05-F18C-07
M4	ALLMAN RENEE M	05-F18C-06
N4	DESTEFANO DOLORES J	05-F18C-05
.04	BELLAIRE HARBOR SERVICES LLC (LE-REBECCA JOHNSON)	04-CC18-17

REVISIONS: A REVISED MINGO ISLAND 03-02-2020 A ADDED INSET OF BHL 08-17-2020 A REVISED DHP 10-02-2020	COMPANY:	SVV Production Co	on Company **		
ZZNETSEB DIT TO 02 ZOZO	Commercial and an arrangement of the commercial and an arrangement of the commercial and arrangement of the	OPERATOR'S OV ROYALTY TRUST LLC BRK WELL #: 47-001-00312 5H MSD			
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT	

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

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE			
TRACT	Surface owners	TAX PARCEL	TRACT	Surface owners	TAX PARCEL	
P4	LOMBARDI DANIEL PATRICK	04-CC18-16	A7	STIFT SHERI A	04-C15N-87	
Q4	LOMBARDI DANIEL P	04-CC18-15	B7	RICHARDSON DEAN & SHARON	04-C19A-10	
R4	KLINE DANIEL A	05-F18C-39	C7	FORD ANGELA	04-C19A-106	
S4	MCCALLISTER RANDY M JR	05-F18C-38	D7	SECRIST WILLIAM D JR	04-C19A-116	
T4	SECRIST MATT C & KYLEE D	05-F18C-37	E7	SNYDER RICK & ESTHER	04-C19A-117	
U4	MOSSER DENISE A	05-F18C-36	F7	BOFFO VERA HUNT	04-C19A-137	
V4	POGGI ILONA	04-CC18-01	G7	WEEKS JADE M & CHRISTOPHER D (JTWS)	04-C19E-138	
W4	DESIMONE MARK D & PENNY J	04-C14S-34	H7	GEARY BARBARA	04-C19E-146	
X4	KOKOS GEORGE	04-C14S-35	17	JONES JAMES H JR; KEVIN ; CORDER DIANA L	04-C19E-04	
Y4	BINE MICHAEL J	04-C14S-48	17	ROSONOVICH GEORGE F & ANNE	04-C19E-05	
Z4	TENNANT MARK ; CHARITY C (JTWS)	04-C14S-49	K7	HENLINE DARRELL & DONNA (SURV)	04-C19E-06	
A5	COLUMBIA GAS	04-CC18-03	L7	BELL REBECCA S ; THOMAS C. (SURV)	04-C19E-07	
B5	FOLLANSBEE CITY OF	04-CC18-04	M7	BELL REBECCA S; THOMAS C. (SURV)	04-C19E-09	
C5	JAC FRED A WV LLA A NORTH CAROLINA LLC	04-CC18-06	N7	MCABEE DONALD P & DENA D	04-C19E-10	
D5	LG OHI FOLLANSBEE LLC; OHI LG ASSET MANAGEMENT LLC	04-CC18-08	07	FODOR JEFFERY LOUIS & DREMA DAWN	04-C19E-12	
E5	LG OHI FOLLANSBEE LLC; OHI LG ASSET MANAGEMENT LLC	04-CC18-09	P7	HOOKER BETH, JOSHUA A, JOSEPH C.	04-C19E-14	
F5	LG OHI FOLLANSBEE LLC; OHI LG ASSET MANAGEMENT LLC	04-CC18-10	Q7		04-C19E-17	
G5	JAC FRED A WV LLA A NORTH CAROLINA LLC	04-CC18-10	R7	ROWLAND RALPH W & WILDA K		
H5	ORBAN KENT	04-CC18-12		MCGOWAN VIRGINIA L JOHNSON	04-C19E-19	
15	WILLIAMS BURL R JR	04-C14S-218	57	NORCROSS DONALD K; BARNES LURA R NORCROSS	04-C19E-24	
J5	EICHNER MICHAEL & LINDA S		17	FRITZ JACKIE L & KEVIN M (SURV)	04-C19E-27	
K5		04-C14S-74	U7	BOARD OF EDUCATION	04-CC19-38	
15	EICHNER MICHAEL A & LINDA S (SURV)	04-C14S-75	V7	BOFFO FAMILY LIMITED PARTNERSHIP	04-CC18-32	
- ATT	BOFFO CARL & TAMMY SUE (SURV)	04-C14S-76	W7	NORFOLK & WESTERN RAILWAY CO	04-C19K-18	
M5	FRANKENFIELD TERRY L & CHERYL L (SURV)	04-C14S-77	X7	BOARD OF EDUCATION	04-CC18-36	
N5	PRITCHARD STEPHEN & BARBARA	04-C14S-78	Y7	BROOKE COUNTY COMMISSION	04-CC19-193	
05	BARNHART DAVID W & PAMELA A	04-C14S-79	Z7	BOARD OF EDUCATION, BROOKE COUNTY	04-CC19-38.	
P5	MCCOY RAYMOND H JR & CYNTHIA S (SURV)	04-C14S-80	A8	BURNS JAMES; COLLINS RANDY	04-CC19-14	
Q5	DEARTH RICHARD C & STACEY A (SURV)	04-C14S-81.1	B8	BLACK CLARENCE T JR; TAMMY L BLACK	04-CC19-36	
R5	BEATTY BRIAN	04-C14S-81.2	C8	BLACK CLARENCE T JR; TAMMY L BLACK	04-CC19-35	
S5	BEATTY BRIAN L	04-C14S-219	D8	KOWALCZYK RANDY & LINDA LOUISE (SURV)	04-CC19-34	
T5	BEATTY BRIAN L	04-C14S-226	E8	KOWALCZYK RANDY & LINDA LOUISE (SURV)	D4-CC18-33	
US	RAY CHRISTOPHER O & KAREN L (SURV)	04-C14S-225	F8	KOWALCZYK RANDY & LINDA LOUISE (SURV)	04-CC18-32	
V5	BARBETTA MARK & DAWN	04-C14S-222	G8	JOHNSON TERRY R & BETH ANN	04-CC19-28	
W5	BARBETTA MARK & DAWN	04-C14S-81.4	H8	RYAN RICHARD E & CAROLYN G	04-CC19-27	
X5	ROKSANDICH MICHAEL P & KELLY J	04-C14S-81.3	18	MCALEER TRAVIS JAMES ; PIEHS KAREN A	04-CC19-26	
Y5	WILLIAMS GARY L & SHARON J	04-C14S-84	18	MARKER PHYLLIS	04-CC18-41	
Z5	BURCH AARON	04-C14S-97	К8	HOSLER JOHN P & GERALDINE SURV	04-CC18-42	
A6	SHAWN BONNIES	04-C14S-98	L8	BUCHWACH JAMES D	04-CC18-43	
B6	BOFFO CARL & TAMMY SUE	04-C145-128	M8	DOUBLES JEAN SHIRLEY	04-CC18-44	
C6	JAC FRED A WV LLA A NORTH CAROLINA LLC	04-C145-129	N8	HIMMELRICK ROBIN L	04-CC18-45	
D6	JAC FRED A WV LLA A NORTH CAROLINA LLC	04-C14S-130	08	HENTHORN GARY	04-CC18-45	
E6	JAC FRED A WV LLA A NORTH CAROLINA LLC	04-C14S-131	P8	HIMMELRICK ROBIN L	04-CC18-47	
F6	FRIEND LAURA M	04-C14S-132				
G6	FRIEND ERNEST CJR & ROSALIND	04-C14S-153	Q8	GEORGE EVA	04-CC18-48	
H6	BINGIEL JAMES R SR	04-C14S-152	R8	GEORGE EVA	04-CC18-52	
16	ADAMS RAY L & LISA M (SURV)	04-C14S-133	58	GEORGE EVA	04-CC18-53	
J6	PENROD RONALD C & JUDITH A	04-C14S-133	T8	MCGOWAN DANIEL & MARJORIE G	04-CC19-06	
K6		04-C14S-135	U8	PRICE DONNA MARIE	04-CC22-23	
L6	LOPEZ CHAS & AURORA	THE RESERVE OF THE PERSON NAMED IN	V8	DODD JAMES HARWELL & LYNN I (SURVIVORSHIP)	04-CC22-24	
-	KIRTLEY SHIRLEY M	04-C14S-136	W8	KIRCHNER CAROLYN F	04-CC23-233	
M6	PINTUS MEGAN E	04-C14S-137	X8	FREEMAN CAROLYN F & LAWRENCE	04-CC23-232	
N6	WILLIAMS TIFFANY	04-C14S-138	Y8	KIRCHNER DORIS J	04-CC23-231	
06	SMITH BRIAN L & DAWN E (SURV)	04-C14S-139	Z8	TAYLOR FLOYD E SR & RHONDA C (SURV)	04-CC23-04	
P6	KUZMA JOHN M & PATRICIA A	04-C14S-140	A9	CALDWELL SHAWN	04-CC23-03	
Q6	SANDRETH ELMER JR & REBECCA	04-C14S-141	B9	TAYLOR FLOYD EUGENE & RHONDA C (SURV)	04-CC23-05	
R6	BOREMAN THOMAS E & SHARON	04-C14S-142	C9	TATE RICHARD A.	04-CC23-07	
S6	BOREMAN THOMAS & SHARON (SURV)	04-C14S-223	D9	TATE RICHARD A.	04-CC23-08	
T6	POWELL GARY W	04-C14S-143	E9	HALL DONALD R & BEVERLY J (SURV)	04-CC23-09	
U6	WAUGH HAROLD & SHIRLEY	04-C14S-174	F9	MOZINGO ROBERT EVAN ; HERBERT JEFFERY ; STEIN CHRISTINE	04-CC23-11	
V6	WAUGH HAROLD & SHIRLEY	04-C14S-175	G9	CUNNINGHAM HENRY	04-CC23-225	
W6	WAUGH HAROLD & SHIRLEY	04-C14S-176	Н9	CUNNINGHAM HENRY	04-CC23-226.	
X6	FOLLANSBEE CITY OF	04-C14S-177	19	PATTISON ROD E & CYNTHIA A	04-CC23-227	
140	CIONNI TERESA	04-C15N-58	19	DOLL RANDALL P & KIMBERLY JO	04-CC23-227	
Y6	CIONIVITERESA	0 1 0 201 1 20 1				

REVISIONS:	COMPANY:	SWN Production Company, LLC	SVA Production C	MA N+ ™
	OPERATOR'S WELL #: 47-001	OV ROYALTY TRUST L		DATE: 10-07-2020 DRAWN BY: N. MANO
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT 5



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

Office of Oil and Gas

OCT 2 3 2020

WV Department of

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
OV Royalty Trust LLC BRK 5H
Brooke County, West Virginia

سا

#	TMP	LESSOR	LESSEE No. 10 10 10 10 10 10 10 10 10 10 10 10 10	ROYALTY	BK/PG
1)	04-CC22-0041-0000	Gene Charles Valentine Trust dated November 26, 1986	Great Lakes Energy Partners, L.L.C.	14.00%	10/121
		and all amendments thereto	Range Resources Appalachia LLC		20/733
			Chesapeake Appalachia, L.L.C.		10/552
			SWN Production Company, LLC		30/480
2)	04-CC23-0230-0000	H3 LLC, a West Virginia Limited Liabililty Company, by	SWN Production Company, LLC	18.00%	53/245
		Michael E. Hoeft, its Manager			
		SWN Production Company, LLC (Company Owned Minerals)	12.50%	396/555
					(Mineral Deed)
3)	04-CC22-0025-0000	H3 LLC, a West Virginia Limited Liabililty Company, by	SWN Production Company, LLC	18.00%	54/265
		Michael E. Hoeft, its Manager			
_		SWN Production Company, LLC (Company Owned Minerals)		396/555
					(Mineral Deed)
4)	04-CC22-0022-0000	Donald R. Michaux AKA Donald Ray Michaux and Shirley R.		18.00%	14/126
_		Michaux AKA Shirley Rae Michaux, husband and wife	SWN Production Company, LLC		30/480
5)	04-CC22-0021-0000	Donald R. Michaux AKA Donald Ray Michaux and Shirley R.	Chesapeake Appalachia, L.L.C.	18.00%	14/126
-		Michaux AKA Shirley Rae Michaux, husband and wife	SWN Production Company, LLC		30/480
6)_	04-CC22-0020-0000	Donald C. Taylor and Christina M. Taylor, husband and wife	c Chesapeake Appalachia, L.L.C.	14.00%	10/690
			SWN Production Company, LLC		30/480
7)_	04-CC18-0049-0000	Eunice Jeanne Dodd, widow	Chesapeake Appalachia, L.L.C.	14.00%	11/448
			SWN Production Company, LLC		30/480
8)	04-CC18-0057-0000	The Thomas J. Boyd Trust, Heather E. Boyd, Successor Co-	Chesapeake Appalachia, L.L.C.	18.00%	21/68
		Trustee and Marjorie P. Boyd, Successor Co-Trustee	SWN Production Company, LLC		30/480
9)_	04-CC18-0033-0000	Brooke County Board of Education, a West Virginia Public	Chesapeake Appalachia, L.L.C.	18.00%	26/181
		Corporation	SWN Production Company, LLC		30/480
10)	04-CC18-0034-0000	Brooke County Board of Education, a West Virginia Public	Chesapeake Appalachia, L.L.C.	18.00%	26/181
		Corporation	SWN Production Company, LLC		30/480
11)_	04-CC18-0035-0000	Brooke County Board of Education, a West Virginia Public	Chesapeake Appalachia, L.L.C.	18.00%	26/181
		Corporation	SWN Production Company, LLC		30/480
12)	04-CC18-0037-0000 g	Brooke County Board of Education, a West Virginia Public	Chesapeake Appalachia, L.L.C.	18.00%	26/181
Ľ_	<u>Si</u>	Corporation	SWN Production Company, LLC		30/480

Wheeling & Lake Eric Pailway Company a Dolaware	SMN Production Company LLC	10.000/	F2 /702
- , , , ,	SWN Production Company, LLC	18.00%	53/702
. ,			
	SWN Production Company, LLC	18.00%	53/702
corporation, sublessee of the Pittsburgh & West Virginia			
Railway Company			
Brooke County Board of Education, a West Virginia Public	Chesapeake Appalachia, L.L.C.	18.00%	26/181
Corporation	SWN Production Company, LLC		30/480
The Boffo Family Limited Partnership, a West Virginia	Chesapeake Appalachia, L.L.C.	17.00%	13/469
Limited Partnership	SWN Production Company, LLC		30/480
The Boffo Family Limited Partnership, a West Virginia	Chesapeake Appalachia, L.L.C.	17.00%	13/470
Limited Partnership	SWN Production Company, LLC		30/480
BOFFO FAMILY, L.P., whose mailing address is 420 Lynn St.,		18.00%	53/696
Follansbee, West Virginia 26037, represented herein by			
Carl Frederick Boffo, Managing General Partner			
Vespy Poggi and Ilona Poggi, husband and wife	Chesapeake Appalachia, L.L.C.	14.00%	11/612
	SWN Production Company, LLC		30/480
West Virginia Department of Transportation, Division of	SWN Production Company, LLC	20.00%	56/202
Highways			
Norfolk Southern Railway Company, a Virginia corporation	SWN Production Company, LLC	18.00%	56/706
Bellair Harbor Services, LLC, an Ohio Limited Liability	SWN Production Company, LLC	18.00%	55/788
Company, represented herein by Robert Harrison, Sole			
Member			
State of West Virginia, Department of Commerce, Division	SWN Production Company, LLC	20.00%	56/710
of Natural Resources	1 7, -		
	SWN Production Company, LLC	18.00%	58/633
·			,
	Brooke County Board of Education, a West Virginia Public Corporation The Boffo Family Limited Partnership, a West Virginia Limited Partnership The Boffo Family Limited Partnership, a West Virginia Limited Partnership BOFFO FAMILY, L.P., whose mailing address is 420 Lynn St., Follansbee, West Virginia 26037, represented herein by Carl Frederick Boffo, Managing General Partner Vespy Poggi and Ilona Poggi, husband and wife West Virginia Department of Transportation, Division of Highways Norfolk Southern Railway Company, a Virginia corporation Bellair Harbor Services, LLC, an Ohio Limited Liability Company, represented herein by Robert Harrison, Sole Member State of West Virginia, Department of Commerce, Division	corporation, sublessee of the Pittsburgh & West Virginia Railwav Company Wheeling & Lake Erie Railway Company, a Delaware corporation, sublessee of the Pittsburgh & West Virginia Railwav Company Brooke County Board of Education, a West Virginia Public Corporation The Boffo Family Limited Partnership, a West Virginia Limited Partnership The Boffo Family Limited Partnership, a West Virginia Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC Follansbee, West Virginia 26037, represented herein by Carl Frederick Boffo, Managing General Partner Vespy Poggi and Ilona Poggi, husband and wife Swn Production Company, LLC Highways Norfolk Southern Railway Company, a Virginia corporation Swn Production Company, LLC Bellair Harbor Services, LLC, an Ohio Limited Liability Company, represented herein by Robert Harrison, Sole Member State of West Virginia, Department of Commerce, Division of Natural Resources Business Development Corporation of the Northern Swn Production Company, LLC	corporation, sublessee of the Pittsburgh & West Virginia Railwav Company Wheeling & Lake Erie Railway Company, a Delaware corporation, sublessee of the Pittsburgh & West Virginia Railwav Company Brooke County Board of Education, a West Virginia Public Corporation The Boffo Family Limited Partnership, a West Virginia Chesapeake Appalachia, L.L.C. The Boffo Family Limited Partnership, a West Virginia Chesapeake Appalachia, L.L.C. The Boffo Family Limited Partnership, a West Virginia Chesapeake Appalachia, L.L.C. The Boffo Family Limited Partnership, a West Virginia Chesapeake Appalachia, L.L.C. The Boffo Family Limited Partnership, a West Virginia Chesapeake Appalachia, L.L.C. SWN Production Company, LLC BOFFO FAMILY, L.P., whose mailing address is 420 Lynn St., Follansbee, West Virginia 26037, represented herein by Carl Frederick Boffo, Managing General Partner Vespy Poggi and Ilona Poggi, husband and wife Chesapeake Appalachia, L.L.C. SWN Production Company, LLC West Virginia Department of Transportation, Division of Highways Norfolk Southern Railway Company, a Virginia corporation SWN Production Company, LLC Bellair Harbor Services, LLC, an Ohio Limited Liability Company, represented herein by Robert Harrison, Sole Member State of West Virginia, Department of Commerce, Division of Natural Resources Business Development Corporation of the Northern SWN Production Company, LLC 18.00%





SWN Production Company, LLC

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

January 2, 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 A BRK 5H in Brooke County, West Virginia, Drilling under Putney Ridge Road, Tent Church Road, St. Johns Road, and WV-27

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 Putney Ridge Road, Tent Church Road, St. Johns Road, and WV-27. 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

Bailey Broughe

Office of Oil and Gas

OCT 2 3 2020

Environmental Protection

R2 nV+

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



9-00318

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

October 22, 2020

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

RE: Proposed Expedited Modification: OV Royalty Trust LLC BRK 5H & OV Royalty Trust LLC BRK 205H

Dear Ms. Adkins

Enclosed please find the required documents to modify this well. We are wanting to extend the laterals on both of these wells. These wells are situated on the OV Royalty's property, in Cross Creek District, Brooke County, West Virginia.

Enclosed you will find:

-Updated 6B

-Updated Casing Program

-AOR

-Mylar

-6A1 & Road letter

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

Thank you.

Sincerely,

Brittany Woody

Dittany Woody

Senior Regulatory Analyst

Southwestern Energy Production Company, LLC

OK# 1053063

Amt \$5000

Amt 10/13/20

Date RECEIVED Gas

OCT 2 3 2020

WV Department of Environmental Protection