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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, May 22, 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<sub>4</sub>  
47-009-00307-00-00

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

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

Operator's Well Number: OV ROYALTY TRUST LLC BRK 405H  
Farm Name: THE GENE CHARLES VALENTINE TRUST DATED<sub>4</sub>  
U.S. WELL NUMBER: 47-009-00307-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 5/21/2020

Promoting a healthy environment.

WW-6B  
(04/15)

API NO. 47-009 - 00307  
 OPERATOR WELL NO. OV Royalty Trust LLC BRK 405H  
 Well Pad Name: OV Royalty Trust LLC BRK

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

1) Well Operator: SWN Production Co., LLC 494512924 009- Brooke 02-Cross 620-Steubenville  
 Operator ID County District Quadrangle

2) Operator's Well Number: OV Royalty Trust LLC BRK 405H Well Pad Name: OV Royalty Trust LLC BRK

3) Farm Name/Surface Owner: The Gene Charles Valentine Trust dated 11/26/96 Public Road Access: Rabbit Hill Road

4) Elevation, current ground: 1181' Elevation, proposed post-construction: 1181'

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

(b) If Gas Shallow  Deep \_\_\_\_\_  
 Horizontal  \_\_\_\_\_

6) Existing Pad: Yes or No Yes  5-1-20

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Target Formation- Marcellus, Up-Dip well to the North, Target Top TVD- 5776', Target Base TVD- 5842', Anticipated Thickness- 66', Associated Pressure- 3797

8) Proposed Total Vertical Depth: 5827'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23484'

11) Proposed Horizontal Leg Length: 14671.7'

12) Approximate Fresh Water Strata Depths: 396'

13) Method to Determine Fresh Water Depths: Salinity calculations from OV Royalty 3H logs (API 47-009-00094)

14) Approximate Saltwater Depths: 512' Salinity Profile Analysis

15) Approximate Coal Seam Depths: 236'

16) Approximate Depth to Possible Void (coal mine, karst, other): Possible void 236'

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

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

WW-6B  
(04/15)

**4700900307**  
 API NO. 47-009  
 OPERATOR WELL NO. OV Royalty Trust LLC BRK 4011  
 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'	601sx/CTS
Production	5 1/2"	New	HCP-110	20#	23,484'	23,484'	<small>Tot 4137sx 100' Inside Intermediate</small>
Tubing							
Liners							

*C. BLO 5.1.20*

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	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	See	Surface	Casing				
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	Class A	1.20/50% Excess
Tubing							
Liners							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

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

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. The well is produced through surface facilities consisting of high pressure production unites, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 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 \*\*\*

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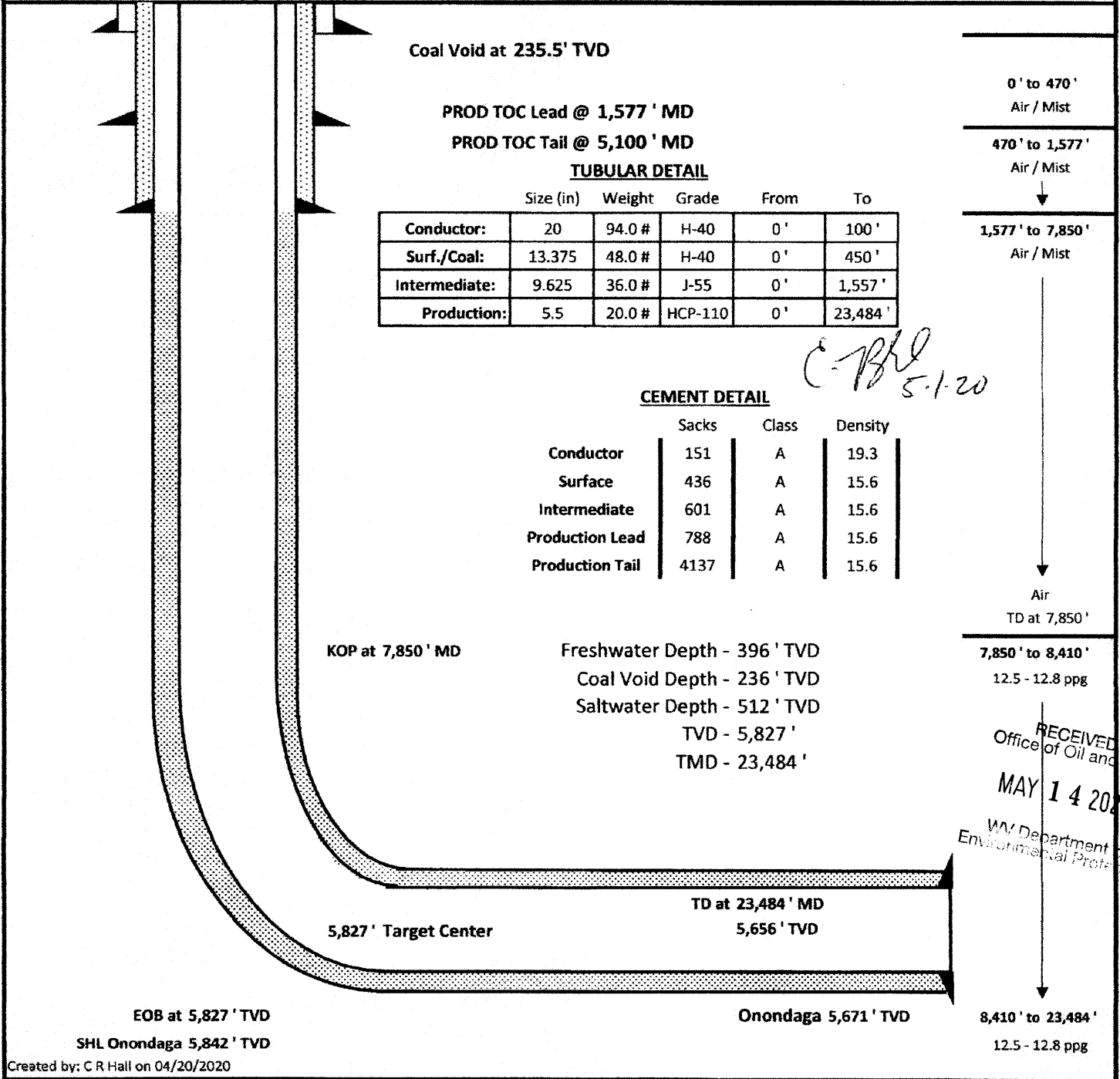
25) Proposed borehole conditioning procedures:

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.

<b>Southwestern Energy Company</b>	<b>Proposed Drilling Program</b>
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<b>Well:</b> OV ROYALTY TRUST LLC BRK 405 <b>Field:</b> PANHANDLE FIELD WET <b>County:</b> BROOKE <b>SHL:</b> 40.2857 Latitude -80.5842 Longitude <b>BHL:</b> 40.3189 Latitude -80.5889 Longitude <b>KB Elev:</b> 1,207 ft MSL <b>KB:</b> 26 ft AGL	<b>Re-entry Rig:</b> TBD <b>Prospect:</b> PANHANDLE <b>State:</b> WV  <b>GL Elev:</b> 1,181 ft MSL
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0' to 470' Air / Mist
470' to 1,577' Air / Mist
1,577' to 7,850' Air / Mist
7,850' to 8,410' 12.5 - 12.8 ppg
8,410' to 23,484' 12.5 - 12.8 ppg

Air  
TD at 7,850'

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Latitude: 40°17'30" N

SURFACE HOLE 231'

Latitude: 40°20'00" N BOTTOM HOLE

1,542'

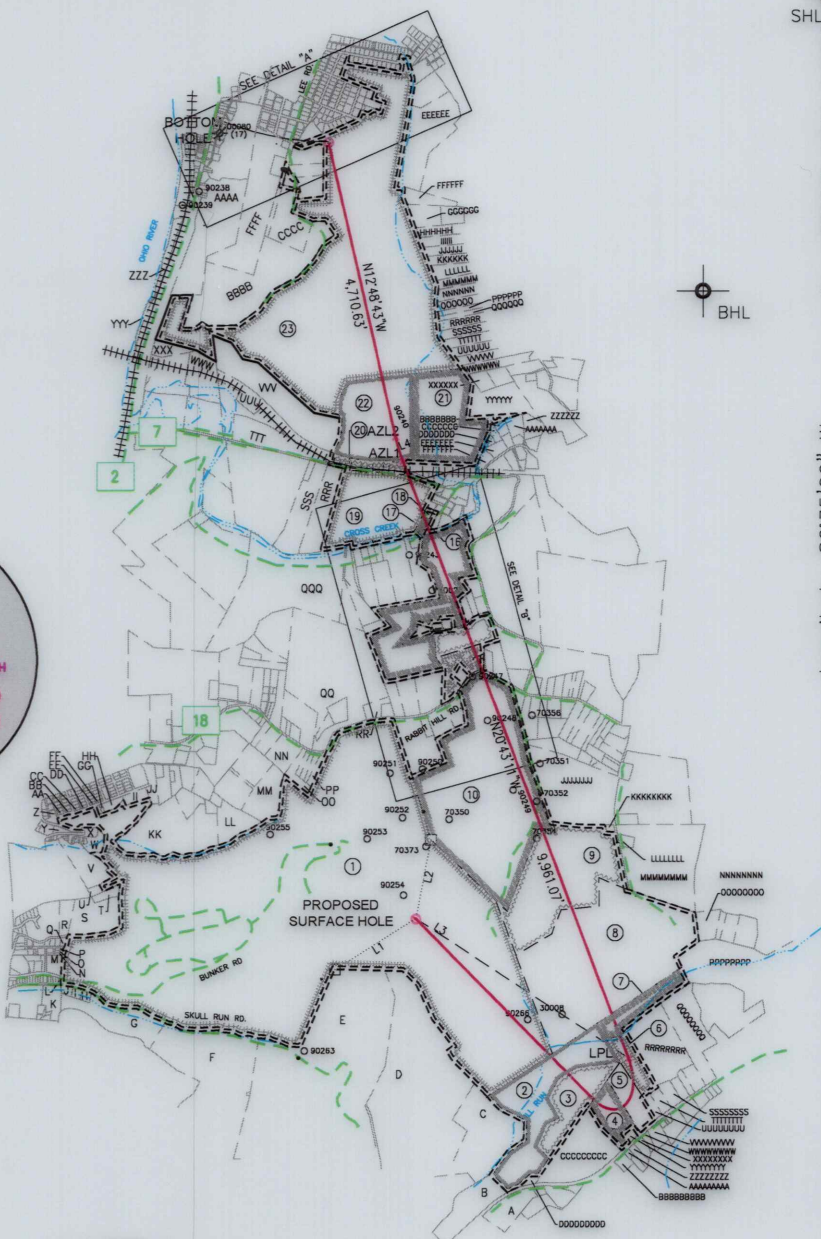
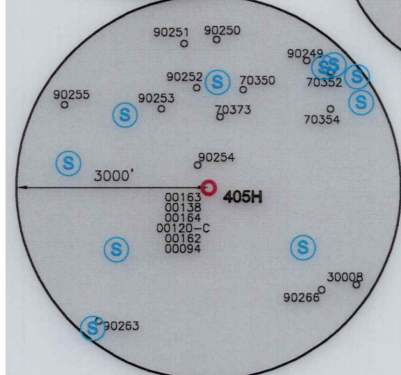
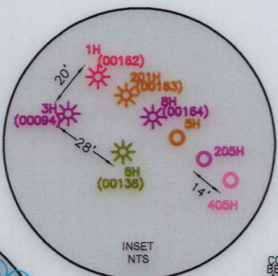
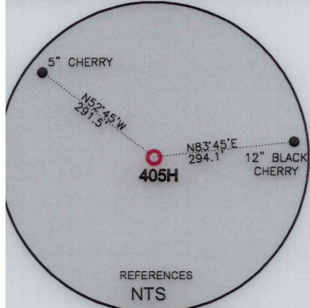
JACKSON SURVEYING INC.

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

Table with 5 columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT. Contains survey data for lines L1 through L4.

Table with 2 columns: LOCATION NAME, ELEVATION (METERS), NORTHING, EASTING. Lists Surface Hole (SHL), Landing Point (LPL), and Azimuth points (AZL1, AZL2, BHL).

GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



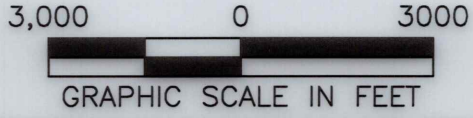
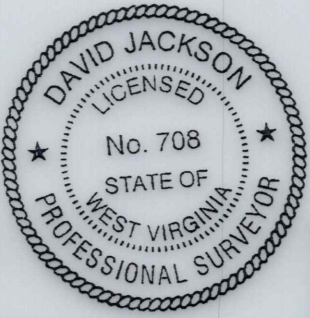
SHL 5.246'
BOTTOM HOLE 2,190'
Longitude: 80°35'00" W

WELL RESTRICTIONS

- List of 5 well restrictions including distance from dwellings, buildings, water wells, streams, and public water supply.

NOTES ON SURVEY

Text notes regarding survey boundaries, accuracy, and certification by the surveyor.



COMPANY: SWN Production Company, LLC

State of West Virginia logo and address: WVDEP, Office of Oil & Gas, 601 57th Street, Charleston, WV 25034.

MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

OV ROYALTY TRUST LLC BRK
OPERATOR'S WELL #: 405H
API WELL #: 47 STATE, 009 COUNTY, 00307 PERMIT

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

WATERSHED: PAINTERS RUN OF BUFFALO CREEK (HUC-10) ELEVATION: 1180.5'

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

SURFACE OWNER: THE GENE CHARLES VALENTINE TRUST DATED 11/26/86 ACREAGE: ±494.38

OIL & GAS ROYALTY OWNER: THE GENE CHARLES VALENTINE TRUST DATED 11/26/86 ACREAGE: ±464.38

DRILL [X] DRILL DEEPER [ ] REDRILL [ ] FRACTURE OR STIMULATE [X] PLUG OFF OLD FORMATION [ ] PERFORATE NEW FORMATION [ ]

CONVERT [ ] PLUG & ABANDON [ ] CLEAN OUT & REPLUG [ ] OTHER CHANGE [ ] (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,827' TVD 23,484' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200

CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND: SURVEYED BOUNDARY, DRILLING UNIT, LEASE BOUNDARY, PROPOSED PATH, AZL\* AZIMUTH POINT LOCATION

REVISIONS: DATE: 05-07-2020

DRAWN BY: N. MANO SCALE: 1" = 3000'

DRAWING NO: WELL LOCATION PLAT

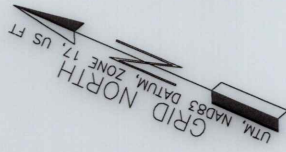


DETAIL "B"

47-009-00307 MOD

REVISIONS:	COMPANY:			DATE: 05-07-2020
				DRAWN BY: N. MANO
	OPERATOR'S	OV ROYALTY TRUST LLC BRK		SCALE: N/A
	WELL #:	405H		DRAWING NO:
	DISTRICT:	COUNTY:	STATE:	WELL LOCATION PLAT 3
	CROSS CREEK	BROOKE	WV	

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



DETAIL "A"

97-009-00307 MND

REVISIONS:	COMPANY:			DATE: 05-07-2020
		OPERATOR'S	OV ROYALTY TRUST LLC BRK	DRAWN BY: N. MANO
	WELL #:	405H		SCALE: N/A
	DISTRICT:	COUNTY:	STATE:	DRAWING NO:
	CROSS CREEK	BROOKE	WV	WELL LOCATION PLAT 2



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
AAAA	MICHAEL P. ROSKANDICH & KELLY J. ROKSANDICH	04-C14S-81.3	DDDDDD	KENNETH J. ULRICH & MICHAELYN ULRICH	04-CC19-41
BBBB	GARY L. WILLIAMS & SHARON J. WILLIAMS	04-C14S-84	EEEEEE	KENNETH J. ULRICH & MICHAELYN ULRICH	04-CC19-40
CCCC	AARON BURCH	04-C14S-97	FFFFFF	GEORGE PAULL PFISTER III	04-CC19-39
DDDD	BONNIE S. SHAWN	04-C14S-98	GGGGGG	BROOKE COUNTY COMMISSION	04-CC19-193
EEEE	CARL FREDERICK BOFFO	04-C14S-128	HHHHHH	BOARD OF EDUCATION	04-CC19-38.1
FFFF	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-C14S-129	IIIIII	JAMES BURNS, RANDY COLLINS	04-CC19-14
GGGG	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-C14S-130	JJJJJJ	CLARENCE T. BLACK & TAMMY L. BLACK	04-CC19-36
HHHH	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-C14S-131	KKKKKK	JEFFERY SCOTT YOUNG, MELANIE DAWN MAXWELL	04-CC19-35
IIII	LAURA M. FRIEND	04-C14S-132	LLLLLL	RANDY & LINDA LOUISE KOWALCZYK	04-CC19-34
JJJJ	ERNEST C. FRIEND, JR. & ROSALIND FRIEND	04-C14S-153	MMMMMM	RANDY & LINDA LOUISE KOWALCZYK	04-CC19-33
KKKK	JAMES R. BINGIEL SR.	04-C14S-152	NNNNNN	RANDY & LINDA LOUISE KOWALCZYK	04-CC19-32
LLLL	RAY L. ADAMS & LISA M. ADAMS	04-C14S-133	OOOOOO	TERRY R. JOHNSON & BETH ANN JOHNSON	04-CC19-28
MMMM	RONALD C. PENROD & JUDITH A. PENROD	04-C14S-134	PPPPPP	RANDY LEE KOWALCZYK & LINDA LOUISE KOWALCZYK	04-CC19-29
NNNN	CHAS & AURORA LOPEZ	04-C14S-135	QQQQQQ	CAMPBELL SHELDON PALIZZI	04-CC19-24
OOOO	SHIRLEY M. KIRTLEY	04-C14S-136	RRRRRR	CAMPBELL SHELDON PALIZZI	04-CC19-23
PPPP	MEGAN E. PINTUS	04-C14S-137	SSSSSS	FRANKLIN M. AFTANAS JR. & DEBRA D. AFTANAS	04-CC19-22
QQQQ	TIFFANY WILLIAMS	04-C14S-138	TTTTTT	FRANKLIN M. AFTANAS JR. & DEBRA D. AFTANAS	04-CC19-20
RRRR	BRIAN L. SMITH & DAWN E. SMITH	04-C14S-139	UUUUUU	MARTIN J. BARTZ JR.	04-CC19-18
SSSS	JOHN M. KUZMA & PATRICIA A. KUZMA	04-C14S-140	VVVVVV	DENNIS K. YOST DBA KEITH YOST EXCAVATING	04-CC19-5
TTTT	ELMER SANDRETH JR. & REBECCA SANDRETH	04-C14S-141	WWWWWW	ROGER L. JONES & JULIA ANN JONES	04-CC19-2
UUUU	THOMAS E. BOREMAN & SHARON BOREMAN	04-C14S-142	XXXXXX	CHARLES A. HOGGARD	04-CC19-7
VVVV	THOMAS E. BOREMAN & SHARON BOREMAN	04-C14S-223	YYYYYY	FRANK E. SMITH & DORTHA JEAN SMITH, JEFF E. SMITH ET AL	04-CC19-9
WWWWW	GARY W. POWELL	04-C14S-143	ZZZZZZ	FRANK E. SMITH & DORTHA JEAN SMITH, JEFF E. SMITH ET AL	04-CC19-10
XXXX	HAROLD WAUGH & SHIRLEY WAUGH	04-C14S-174	AAAAAA	FRANK E. SMITH & DORTHA JEAN SMITH, JEFF E. SMITH ET AL	04-CC19-8
YYYY	HAROLD WAUGH & SHIRLEY WAUGH	04-C14S-175	BBBBBB	DANIEL E. MCGOWAN & MARJORIE G. MCGOWAN	04-CC23-12
ZZZZ	HAROLD WAUGH & SHIRLEY WAUGH	04-C14S-176	CCCCCC	DONALD R. HALL & BEVERLY J. HALL	04-CC23-9
AAAAA	CITY OF FOLLANSBEE	04-C14S-177	DDDDDD	DONALD R. HALL & BEVERLY J. HALL	04-CC23-8
BBBBB	TERESA CIONINI	04-C15N-58	EEEEEE	DONALD R. HALL & BEVERLY J. HALL	04-CC23-7
CCCCC	NORMA B. TRAUBERT, ET AL	04-C15N-77	FFFFFF	ANGELA FORD	04-C19A-106
DDDDD	SHERI A. STIFT	04-C15N-87	GGGGGG	WILLIAM D. SECRIST JR.	04-C19A-116.1
EEEEE	DEAN RICHARDSON & SHARON RICHARDSON	04-C19A-10	HHHHHH	RICK SNYDER & ESTHER SNYDER	04-C19A-117
FFFFFF	ANGELA FORD	04-C19A-106	IIIIII	VERA HUNT BOFFO	04-C19A-137
GGGGG	WILLIAM D. SECRIST JR.	04-C19A-116.1	JJJJJJ	JADE M. WEEKS & CHRISTOPHER D. WEEKS	04-C19A-138
HHHHH	RICK SNYDER & ESTHER SNYDER	04-C19A-117	KKKKKK	BARBARA GEARY	04-C19A-146
IIIII	VERA HUNT BOFFO	04-C19A-137	LLLLLL	JAMES H. JONES JR., KEVI JONES, DIANNA L. CORDER JONES	04-C19E-4
JJJJJ	JADE M. WEEKS & CHRISTOPHER D. WEEKS	04-C19A-138	MMMMMM	CHRISTINE A. BEARD ROSNOVICH & GEORGE B. ROSNOVICH	04-C19E-5
KKKKK	BARBARA GEARY	04-C19A-146	NNNNNN	DARRELL HENLINE & DONNA HENLINE	04-C19E-6
LLLLL	JAMES H. JONES JR., KEVI JONES, DIANNA L. CORDER JONES	04-C19E-4	OOOOOO	REBECCA S. BELL, THOMAS C. BELL	04-C19E-7
MMMMM	CHRISTINE A. BEARD ROSNOVICH & GEORGE B. ROSNOVICH	04-C19E-5	PPPPPP	REBECCA S. BELL, THOMAS C. BELL	04-C19E-9
NNNNN	DARRELL HENLINE & DONNA HENLINE	04-C19E-6	QQQQQQ	DONALD P. MCABEE, DENA D. MCABEE	04-C19E-10
OOOOO	REBECCA S. BELL, THOMAS C. BELL	04-C19E-7	RRRRRR	JEFFERY LOUIS FODOR & DREMA DAWN FODOR	04-C19E-12
PPPPP	REBECCA S. BELL, THOMAS C. BELL	04-C19E-9	SSSSSS	JOSHUA A. HOOKER, JOSEPH C. HOOKER, LE BETH HOOKER	04-C19E-14
QQQQQ	DONALD P. MCABEE, DENA D. MCABEE	04-C19E-10	TTTTTT	RALPH W. ROWLAND & WILDA K. ROWLAND	04-C19E-17
RRRRR	JEFFERY LOUIS FODOR & DREMA DAWN FODOR	04-C19E-12	UUUUUU	VIRGINIA L. HADDON	04-C19E-19
SSSSS	JOSHUA A. HOOKER, JOSEPH C. HOOKER, LE BETH HOOKER	04-C19E-14	VVVVVV	DONALD K. NORCROSS, LAURA R. NORCROSS BARNES	04-C19E-24
TTTTT	RALPH W. ROWLAND & WILDA K. ROWLAND	04-C19E-17	WWWWWW	JACKIE L. FRITZ & KEVIN M. FRITZ	04-C19E-27
UUUUU	VIRGINIA L. HADDON	04-C19E-19	XXXXXX	ROBERT & BRIANA M. HINKLE (JTWS)	04-C19E-29.1
VVVVV	DONALD K. NORCROSS, LAURA R. NORCROSS BARNES	04-C19E-24	YYYYYY	CHARLES PAUL ULRICH	04-CC19-88
WWWWW	JACKIE L. FRITZ & KEVIN M. FRITZ	04-C19E-27	ZZZZZZ	MARY ANN COX	04-CC19-48
XXXXX	ROBERT & BRIANA M. HINKLE (JTWS)	04-C19E-29.1	AAAAAAA	JOHN R. CARE & DORIS JUNE CARE	04-CC19-46
YYYYY	CHARLES PAUL ULRICH	04-CC19-88	BBBBBBB	CHARLES M. ULRICH	04-CC19-43
ZZZZZ	MARY ANN COX	04-CC19-48	CCCCCCC	CHARLES M. ULRICH	04-CC19-42
AAAAAAA	JOHN R. CARE & DORIS JUNE CARE	04-CC19-46	DDDDDDD	CHARLES M. ULRICH	04-CC19-42
BBBBBBB	CHARLES M. ULRICH	04-CC19-43			
CCCCCCC	CHARLES M. ULRICH	04-CC19-42			

47-009-00307 MOD

REVISIONS:	COMPANY:	 	
	OPERATOR'S	OV ROYALTY TRUST LLC BRK	
	WELL #:	405H	
	DISTRICT:	COUNTY:	STATE:
	CROSS CREEK	BROOKE	WV
			DATE: 05-07-2020
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 5

**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	THE GENE CHARLES VALENTINE TRUST DATED 11/26/86 (S/R)	4-CC22-41
TRACT	SURFACE OWNER	TAX PARCEL
2	SCHIAPPA AND COMPANY INC. (S)	4-CC28-02
3	WILLIAM R. AFTANAS & MARGARET L. AFTANAS (S)	4-CC23-236
4	MCCOMBS FAMILY TRUST 4/3/19 (S)	4-CC23-238
5	MCCOMBS FAMILY TRUST (S)	4-CC23-239
6	JAMES W. FERGUSON (S)	4-CC23-243
7	JAMES W. LUNSFORD (S)	4-CC23-245
8	JAMES LUNSFORD (S)	04-CC23-203
9	DONNA KATHRYN HALL (S)	4-CC23-229
10	CHARLES KIRCHNER & JUDITH KIRCHNER ALLEMAN, ET AL (S)	4-CC23-230
11	FLOYD EUGENE TAYLOR & RHONDA C. TAYLOR (S)	4-CC23-5
12	FLOYD EUGENE TAYLOR & RHONDA C. TAYLOR (S)	4-CC23-6
13	FLOYD E. TAYLOR SR. & RHONDA C. TAYLOR (SURV)(S)	4-CC23-4
14	JAMES DODD, JEANNE MCGILL, & ROBIN GEORGE (S)	4-CC19-13
15	DANIEL MCGOWAN & MARJORIE G. MCGOWAN (S)	4-CC19-6
16	CAMPBELL SHELDON PALIZZI (S)	4-CC19-25
17	TRAVIS JAMES MCALEER & KAREN A. PIEHS (S)	4-CC19-26
18	RICHARD E. RYAN & CAROLYN G. RYAN (S)	4-CC19-27
19	BOARD OF EDUCATION (S)	4-CC18-33
20	NORFOLK & WESTERN RAILWAY CO. (S)	4-C19K-18
21	BOARD OF EDUCATION (S)	4-CC19-38
22	BOFFO FAMILY LIMITED PARTNERSHIP (S)	4-CC18-32
23	BOFFO FAMILY LIMITED PARTNERSHIP (S)	4-CC18-7

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	MIKE RYNAWEC & SHIRLEY MAE RYNAWEC	03-B28A-04	AAA	JAMES DODD, ROBIN GEORGE, & JEANNE MCGILL	04-CC18-53
B	ROBERT R. FONNER & MICHELLE FONNER	04-CC28-01	BBB	JAMES DODD, ROBIN GEORGE, & JEANNE MCGILL	04-CC18-52
C	JOHN W. & NANCY TRAUBERT	04-CC23-234	CCC	JAMES D. BUCHWACH	04-CC18-50
D	PAUL LISH & PATRICIA ANN LISH	04-CC22-50	DDD	JAMES D. BUCHWACH	04-CC18-51
E	OV ROYALTY TRUST LLC	04-CC22-49	EEE	JAMES D. BUCHWACH	04-CC18-43
F	RONALD CONAWAY, DONALD CONAWAY & PATRICIA CONAWAY	04-CC22-47	FFF	JOHN P. HOSLER & GERALDINE HOSLER	04-CC18-42
G	SAMUEL J. & MELANIE A. DONINI	04-CC22-45	GGG	JASON CARBASHO	04-CC18-54
H	LOUIS M. & TINA L. MCGOWAN	04-CC22-44	HHH	MONONGAHELA POWER CO.	04-CC19-12
I	TINA L. MCGOWAN	04-CC22-43	III	BOARD OF EDUCATION	04-CC19-11
J	MICHAEL E. FRIEND	04-CC22-42	JJJ	PHYLLIS MARKER	04-CC18-41
K	JOHN C. BOBER III & JENNIFER R. BOBER	07-W22L-18	KKK	JEAN SHIRLEY DOUBLES	04-CC18-44
L	UNKNOWN	07-W22L-17	LLL	ROBIN L. HIMMERLICK (LE ELLA MAE HAYMAN)	04-CC18-45
M	RICHARD L. FRYER	07-W22L-11	MMM	GARY HENTHORN	04-CC18-46
N	CHRISTINE L. ICE	07-W22L-8	NNN	ROBIN L. HIMMERLICK (LE ELLA MAE HAYMAN)	04-CC18-47
O	CHRISTINE L. ICE	07-W22L-9	OOO	JAMES DODD, ROBIN GEORGE, & JEANNE MCGILL	04-CC18-48
P	CHRISTINE L. ICE	07-W22L-10	PPP	JAMES DODD, ROBIN GEORGE, & JEANNE MCGILL	04-CC18-49
Q	LARRY N. CLEMONS & SANDRA K. CLEMONS	07-W22L-4	QQQ	THOMAS M. BOYD, RICHARD A. BOYD, DAVID S. BOYD, TRUSTEES IN TRUST OF THOMAS J. BOYD	04-CC18-57
R	UNKNOWN	07-W22L-5	RRR	BOARD OF EDUCATION	04-CC18-34
S	WILLIAM RIGGS	04-C22G-82	SSS	BOARD OF EDUCATION	04-CC18-35
T	ROBERT J. ZAMPINI	04-C22G-81	TTT	BOARD OF EDUCATION	04-CC18-37
U	ROBERT J. ZAMPINI	04-C22G-80	UUU	NORFOLK & WESTERN RAILWAY CO.	04-C19K-18
V	T.H. CALDWELL HEIRS	04-C22G-79	VVV	BOARD OF EDUCATION	04-CC18-31
W	JACKIE RAY COLLEY, ROBERTA G. COLLEY	04-C22G-64	WWW	NORFOLK & WESTERN RAILWAY CO.	04-CC18-28
X	JACKIE COLLEY, ROBERTA G. COLLEY	04-C22G-63	XXX	PITTSBURGH & WVA RAILWAY CO.	04-CC18-27
Y	FRANKLIN FRAGALE	07-W22G-7	YYY	PITTSBURGH & WVA RAILWAY CO.	04-CC18-21
Z	JOHN WHITE, ROBERT WHITE, SHARON FREY, LE KATHRYN WHITE, RALPH WHITE, JEFFERY WHITE	07-W22G-5	ZZZ	BELLAIRE HARBOR SERVICES LLC (LE REBECCA JOHNSON)	04-CC18-20
AA	JOHN WHITE, ROBERT WHITE, SHARON FREY, LE KATHRYN WHITE, RALPH WHITE, JEFFERY WHITE	04-C22G-8	AAAA	ILONA POGGI	04-CC18-14
BB	DAVID R. ROTHWELL & WYNONNA ROTHWELL	04-C22G-19	BBBB	BOFFO FAMILY LIMITED PARTNERSHIP	04-CC18-5
CC	DAVID ROGER ROTHWELL, C/O JOHN BASSETT	04-C22G-20	CCCC	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-CC18-6
DD	JUDITH L. FOWLER	04-C22G-31	DDDD	LG - OHI FOLLANSBEE, LLC	04-CC18-9
EE	VIRGINIA PRICE	04-C22G-33	EEEE	LG - OHI FOLLANSBEE, LLC	04-CC18-8
FF	GEORGE ENNIS	04-C22G-44	FFFF	BISHOP OF CATHOLIC DIOCESE WHEELING/CHARLESTON	04-CC18-2
GG	GEORGE F. ENNIS	04-C22G-45	GGGG	CITY OF FOLLANSBEE	04-CC18-4
HH	EARL W. MILLER JR.	04-C22G-46	HHHH	LG - OHI FOLLANSBEE, LLC	04-CC18-10
II	MARK KOSCEVIC	04-C22G-32	IIII	JAC-FRED WV LLC A NORTH CAROLINA LLC	04-CC18-11
JJ	TERRY L. SMITH & LORA J. SMITH	04-C22C-122	JJJJ	COLUMBIA GAS	04-CC18-3
KK	FRANK CARUSO & LISA C. CARUSO	04-C22G-60	KKKK	KENT ORBAN	04-CC18-12
LL	CHARLES R. BOGGS	04-C22G-57	LLLL	BURL R. WILLIAMS JR.	04-C14S-218
MM	CHARLES ISINGHOOD SR.	04-CC22-32	MMMM	MICHAEL EICHNER & LINDA S. EICHNER	04-C14S-74
NN	JIMMIE D. GEORGE & ROBIN J. GEORGE	04-CC22-31	NNNN	MICHAEL EICHNER & LINDA S. EICHNER	04-C14S-75
OO	DALE E. ADAMS & MARY K. ADAMS	04-CC22-30	OOOO	CARL FREDERICK BOFFO	04-C14S-76
PP	STEVEN P. DIPASQUALE & MARCY DIPASQUALE	04-CC22-26	PPPP	TERRY L. FRANKENFIELD & CHERYL L. FRANKENFIELD	04-C14S-77
QQ	DONALD C. TAYLOR JR. & JOAN WILLIAMS ET AL	04-CC22-20	QQQQ	STEPHEN PRITCHARD & BARBARA PRITCHARD	04-C14S-78
RR	ERIN R. SNODGRASS	04-CC22-21	RRRR	DAVID W. BARNHART & PAMELA A. BARNHART	04-C14S-79
SS	RON MICHAUX ET AL (LC JASON & DEANNA GALLOWAY)	04-CC22-22	SSSS	RAYMOND H. MCCOY JR. & CYNTHIA S. MCCOY	04-C14S-80
TT	CAROLYN F. FREEMAN	04-CC22-25	TTTT	RICHARD C. DEARTH & STACEY A. DEARTH	04-C14S-81.1
UU	CAROLYN F. FREEMAN & LAWRENCE FREEMAN	04-CC23-232	UUUU	BRIAN BEATTY	04-C14S-81.2
VV	DORIS J. KIRCHNER	04-CC23-231	VVVV	BRIAN L. BEATTY	04-C14S-219
WW	SHAWN CALDWELL	04-CC23-3	WWWW	BRIAN L. BEATTY	04-C14S-226
XX	JAMES HARWELL DODD JR.	04-CC23-1	XXXX	CHRISTOPHER O. RAY & KAREN L. RAY	04-C14S-225
YY	JAMES HARWELL DODD & LYNN I. DODD	04-CC22-24	YYYY	MARK BARBETTA & DAWN BARBETTA	04-C14S-222
ZZ	DONNA MARIE PRICE	04-CC22-23	ZZZZ	MARK BARBETTA & DAWN BARBETTA	04-C14S-81.4

EVISIONS:		COMPANY:	
		 	
OPERATOR'S		OV ROYALTY TRUST LLC BRK	
WELL #:		405H	
DISTRICT:		COUNTY:	STATE:
CROSS CREEK		BROOKE	WV
		DATE: 05-07-2020	
		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



**NOTES ON SURVEY**

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

**LEGEND:**

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

<b>WELL OPERATOR:</b> SWN PRODUCTION COMPANY, LLC	<b>WELL (FARM) NAME:</b> OV ROYALTY TRUST LLC BRK	<b>WELL #</b> 405H	<b>SERIAL #</b>
<b>ADDRESS:</b> 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508	<b>COUNTY - CODE</b> BROOKE - 009	<b>DISTRICT:</b> CROSS CREEK	
<b>SURFACE OWNER:</b> THE GENE CHARLES VALENTINE TRUST DATED 11/26/86	<b>USGS 7 1/2 QUADRANGLE MAP NAME</b> STUEBENVILLE EAST, WV		

WW-6A1  
(5/13)

Operator's Well No. OV ROYALTY TRUST LLC BRK 405H

**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

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WV Department of  
Environmental Protection

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: *Briley Bogle*  
 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 405H  
 Brooke County, West Virginia

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#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1)	04-CC22-0041-0000	Gene Charles Valentine Trust dated November 26, 1986 and all amendments thereto	Great Lakes Energy Partners, L.L.C.	14.00%	10/121
			Range Resources -- Appalachia LLC		20/733
			Chesapeake Appalachia, L.L.C.		10/552
		James Bruce and Diana Midcap, husband and wife	SWN Production Company, LLC	18.00%	30/480
			Chesapeake Appalachia, L.L.C.		27/449
		Garnet Midcap, widow	SWN Production Company, LLC	18.00%	30/480
			Chesapeake Appalachia, L.L.C.		27/459
		Betty Jane Midcap, widow	SWN Production Company, LLC	18.00%	30/480
			Chesapeake Appalachia, L.L.C.		28/121
		Alicia Howard	SWN Production Company, LLC	18.00%	30/480
			Chesapeake Appalachia, L.L.C.		27/444
		Paul Alan and Erika Midcap, husband and wife	SWN Production Company, LLC	18.00%	30/480
			Chesapeake Appalachia, L.L.C.		24/454
		Patrick and Cynthia McCloskey, husband and wife	SWN Production Company, LLC	18.00%	30/480
			Chesapeake Appalachia, L.L.C.		27/608
		Jerry Wayne Midcap, married	SWN Production Company, LLC	18.00%	30/480
			Chesapeake Appalachia, L.L.C.		28/126
		D. Brent Queen, widower	SWN Production Company, LLC	18.00%	30/480
			Chesapeake Appalachia, L.L.C.		29/109
		Martha L. Goddard, widow	SWN Production Company, LLC	18.00%	30/480
			Chesapeake Appalachia, L.L.C.		29/97
		Frederic Scott and Diane M. Makara, husband and wife	SWN Production Company, LLC	18.00%	30/480
			Chesapeake Appalachia, L.L.C.		29/103
		Jan Chamberlain and Stephanie Makara Chamberlain, husband and wife	SWN Production Company, LLC	18.00%	30/480
			Chesapeake Appalachia, L.L.C.		29/180
		Richard L. and Deborah C. Collins, husband and wife	SWN Production Company, LLC	18.00%	30/480
			Chesapeake Appalachia, L.L.C.		29/268
		Douglas R. Lauck, single	SWN Production Company, LLC	18.00%	30/480
			Chesapeake Appalachia, L.L.C.		29/274
		Randal J. Lauck, single	SWN Production Company, LLC	18.00%	30/480
			Chesapeake Appalachia, L.L.C.		29/449
		Curtis J. Lauck, single	SWN Production Company, LLC	18.00%	31/288
			Chesapeake Appalachia, L.L.C.		29/257
			SWN Production Company, LLC		30/480

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 405H  
 Brooke County, West Virginia

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Brian and Tammy Makara, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	30/108
Randal J. Lauck, single	SWN Production Company, LLC	18.00%	31/288
Burton R. and Wanda Lauck, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	29/449
Lawrence R. Midcap, widower	SWN Production Company, LLC	18.00%	31/288
Grace M. Midcap, widow	Chesapeake Appalachia, L.L.C.	18.00%	29/413
Emmett Wheeler, a/k/a Emmitt Wheeler, and Bonnie Wheeler, husband and wife	SWN Production Company, LLC	18.00%	31/288
Douglas and Marita Wheeler, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	29/407
Aaron Wheeler, single	SWN Production Company, LLC	18.00%	31/288
Judy A. Snodgrass, widow	Chesapeake Appalachia, L.L.C.	18.00%	29/424
Mary Beth Barrett, married	SWN Production Company, LLC	18.00%	31/288
George Michael Makara, unmarried	Chesapeake Appalachia, L.L.C.	18.00%	29/546
Christopher Siebert and Shannon Wheeler, husband and wife	SWN Production Company, LLC	18.00%	31/288
Ruth Ellen Yazevac, unmarried	Chesapeake Appalachia, L.L.C.	18.00%	30/114
Tara Keeley, individually and as Attorney-in-Fact for Frank R. Keeley	SWN Production Company, LLC	18.00%	31/288
Alfred C. and Brenda K. Leist, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	30/148
Edward and Paula Wheeler, husband and wife	SWN Production Company, LLC	18.00%	31/288
Schiappa and Company, Inc.	Chesapeake Appalachia, L.L.C.	18.00%	30/120
James Bruce and Diana Midcap, husband and wife	SWN Production Company, LLC	18.00%	31/288
Garnet Midcap, widow	Chesapeake Appalachia, L.L.C.	18.00%	30/396
Betty Jane Midcap, widow	SWN Production Company, LLC	18.00%	31/288
	Chesapeake Appalachia, L.L.C.	18.00%	30/403
	SWN Production Company, LLC	18.00%	31/288
	SWN Production Company, LLC	18.00%	30/782
	SWN Production Company, LLC	18.00%	30/788
	SWN Production Company, LLC	18.00%	31/37
	SWN Production Company, LLC	18.00%	31/16
	SWN Production Company, LLC	18.00%	31/72
	SWN Production Company, L.L.C.	18.00%	39/605
	Chesapeake Appalachia, L.L.C.	18.00%	27/449
	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	27/459
	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	28/121
	SWN Production Company, LLC	18.00%	30/480

2) 04-CC28-0002-0000

EXHIBIT "A"

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 OV Royalty Trust LLC BRK 405H  
 Brooke County, West Virginia

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Alicia Howard	Chesapeake Appalachia, L.L.C.	18.00%	27/444
Paul Alan and Erika Midcap, husband and wife	SWN Production Company, LLC	18.00%	30/480
Patrick and Cynthia McCloskey, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	24/454
Jerry Wayne Midcap, married	SWN Production Company, LLC	18.00%	30/480
D. Brent Queen, widower	Chesapeake Appalachia, L.L.C.	18.00%	27/608
Martha L. Goddard, widow	SWN Production Company, LLC	18.00%	30/480
Frederic Scott and Diane M. Makara, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	28/126
Brian and Tammy Makara, husband and wife	SWN Production Company, LLC	18.00%	30/480
Jan Chamberlain and Stephanie Makara Chamberlain, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	29/109
Richard L. and Deborah C. Collins, husband and wife	SWN Production Company, LLC	18.00%	30/480
Douglas R. Lauck, single	Chesapeake Appalachia, L.L.C.	18.00%	29/97
Randal J. Lauck, single	SWN Production Company, LLC	18.00%	30/480
Curtis J. Lauck, single	Chesapeake Appalachia, L.L.C.	18.00%	29/103
Burton R. and Wanda Lauck, husband and wife	SWN Production Company, LLC	18.00%	30/480
Lawrence R. Midcap, widower	Chesapeake Appalachia, L.L.C.	18.00%	30/108
Grace M. Midcap, widow	SWN Production Company, LLC	18.00%	31/288
Emmett Wheeler, a/k/a Emmitt Wheeler, and Bonnie Wheeler, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	29/180
Douglas and Marita Wheeler, husband and wife	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	29/268
	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	29/274
	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	29/449
	SWN Production Company, LLC	18.00%	31/288
	Chesapeake Appalachia, L.L.C.	18.00%	29/257
	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	29/413
	SWN Production Company, LLC	18.00%	31/288
	Chesapeake Appalachia, L.L.C.	18.00%	29/407
	SWN Production Company, LLC	18.00%	31/288
	Chesapeake Appalachia, L.L.C.	18.00%	29/424
	SWN Production Company, LLC	18.00%	31/288
	Chesapeake Appalachia, L.L.C.	18.00%	29/546
	SWN Production Company, LLC	18.00%	31/288
	Chesapeake Appalachia, L.L.C.	18.00%	30/114
	SWN Production Company, LLC	18.00%	31/288

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 Brooke County, West Virginia

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Aaron Wheeler, single	Chesapeake Appalachia, L.L.C.	18.00%	30/148
George Michael Makara, unmarried	SWN Production Company, LLC	18.00%	31/288
Judy A. Snodgrass, widow	Chesapeake Appalachia, L.L.C.	18.00%	30/403
Christopher Siebert and Shannon Wheeler, husband and wife	SWN Production Company, LLC	18.00%	31/288
Ruth Ellen Yazevac, unmarried	Chesapeake Appalachia, L.L.C.	18.00%	30/120
Alfred C. and Brenda K. Leist, husband and wife	SWN Production Company, LLC	18.00%	31/288
Tara Keeley, individually and as Attorney-in-Fact for Frank R. Keeley	SWN Production Company, LLC	18.00%	30/782
Edward and Paula Wheeler, husband and wife	SWN Production Company, LLC	18.00%	30/788
James Bruce and Diana Midcap, husband and wife	SWN Production Company, LLC	18.00%	31/16
Garnet Midcap, widow	SWN Production Company, LLC	18.00%	31/37
Betty Jan Midcap, widow	SWN Production Company, LLC	18.00%	31/72
Alicia Howard, widow	Chesapeake Appalachia, L.L.C.	18.00%	27/449
Paul Alan and Erika Midcap, husband and wife	SWN Production Company, LLC	18.00%	30/480
Patrick and Cynthia McCloskey, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	27/459
Jerry Wayne Midcap, married	SWN Production Company, LLC	18.00%	30/480
D. Brent Queen, widower	Chesapeake Appalachia, L.L.C.	18.00%	28/121
Martha L. Goddard, widow	SWN Production Company, LLC	18.00%	30/480
Frederic Scott and Diane M. Makara, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	27/444
Brian and Tammy Makara, husband and wife	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	27/454
	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	27/608
	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	28/126
	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	29/109
	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	29/97
	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	29/103
	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	30/108
	SWN Production Company, LLC	18.00%	31/288

3) 04-CC23-0236-0000



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 Brooke County, West Virginia

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Jan Chamberlain and Stephanie Makara Chamberlain, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	29/180
William B. and Paula J. Kumer husband and wife	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	29/289
Richard L. Kumer, Jr. and Connie H. Kumer, husband and wife	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	29/534
Richard L. and Deborah C. Collins, husband and wife	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	29/268
Douglas R. Lauck, single	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	29/274
Randal J. Lauck, single	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	29/449
Curtis J. Lauck, single	SWN Production Company, LLC	18.00%	31/288
	Chesapeake Appalachia, L.L.C.	18.00%	29/257
Burton R. and Wanda Lauck, husband and wife	SWN Production Company, LLC	18.00%	30/480
	Chesapeake Appalachia, L.L.C.	18.00%	29/413
Lawrence R. Midcap, widower	SWN Production Company, LLC	18.00%	31/288
	Chesapeake Appalachia, L.L.C.	18.00%	29/407
Grace M. Midcap, widow	SWN Production Company, LLC	18.00%	31/288
	Chesapeake Appalachia, L.L.C.	18.00%	29/424
Emmett Wheeler, a/k/a Emmitt Wheeler, and Bonnie Wheeler, husband and wife	SWN Production Company, LLC	18.00%	31/288
Douglas and Marita Wheeler, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	29/546
	SWN Production Company, LLC	18.00%	31/288
	Chesapeake Appalachia, L.L.C.	18.00%	30/114
Aaron Wheeler, single	SWN Production Company, LLC	18.00%	31/288
	Chesapeake Appalachia, L.L.C.	18.00%	30/148
Judy A. Snodgrass, widow	SWN Production Company, LLC	18.00%	31/288
	Chesapeake Appalachia, L.L.C.	18.00%	30/120
Mary Beth Barrett, married	SWN Production Company, LLC	18.00%	31/288
	Chesapeake Appalachia, L.L.C.	18.00%	30/396
George Michael Makara, unmarried	SWN Production Company, LLC	18.00%	31/288
	Chesapeake Appalachia, L.L.C.	18.00%	30/403
Carole Anne Bondi, widow	SWN Production Company, LLC	18.00%	31/288
Christopher Siebert and Shannon Wheeler, husband and wife	SWN Production Company, LLC	18.00%	31/11
Ruth Ellen Yazevac, unmarried	SWN Production Company, LLC	18.00%	30/782
	SWN Production Company, LLC	18.00%	30/788

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 405H  
 Brooke County, West Virginia

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		Tara Keeley, individually and as Attorney-in-Fact for Frank R. Keeley	SWN Production Company, LLC	18.00%	31/37
		Alfred C. and Brenda K. Leist, husband and wife	SWN Production Company, LLC	18.00%	31/16
		Edward and Paula Wheeler, husband and wife	SWN Production Company, LLC	18.00%	31/72
4)	04-CC23-0238-0000	Wellsburg Church of the Nazarene, Inc., a/k/a The First Church of the Nazarene	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	19/242 30/480
5)	04-CC23-0239-0000	Edith E. McCombs, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	19/237 30/480
6)	04-CC23-0243-0000	The 1997 Ferguson Family Trust, James W. Ferguson and Constance N. Ferguson, Trustees	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	12/754 30/480
7)	04-CC23-0245-0000	James Lunsford, a widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	11/361 30/480
8)	04-CC23-0203-0000	James Lunsford, widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	11/367 30/480
9)	04-CC23-0229-0000	Donna Kathryn Hall, a widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	11/317 30/480
10)	04-CC23-0230-0000	H3 LLC, a West Virginia Limited Liability Company, by Michael E. Hoeft, its Manager SWN Production Company, LLC (Company Owned Minerals)	SWN Production Company, LLC	18.00%	53/245
11)	04-CC23-0005-0000	H3 LLC, a West Virginia Limited Liability Company, by Michael E. Hoeft, its Manager SWN Production Company, LLC (Company Owned Minerals)	SWN Production Company, LLC	12.50%	396/555 (Mineral Deed) 54/265
12)	04-CC23-0006-0000	H3 LLC, a West Virginia Limited Liability Company, by Michael E. Hoeft, its Manager SWN Production Company, LLC (Company Owned Minerals)	SWN Production Company, LLC	12.50%	396/555 (Mineral Deed) 54/265
13)	04-CC23-0004-0000	H3 LLC, a West Virginia Limited Liability Company, by Michael E. Hoeft, its Manager SWN Production Company, LLC (Company Owned Minerals)	SWN Production Company, LLC	12.50%	396/555 (Mineral Deed) 54/265

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 405H  
 Brooke County, West Virginia

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14)	04-CC19-0013-0000	Eunice Jeanne Dodd, a widow	Chesapeake Appalachia, L.L.C.	18.00%	20/689
15)	04-CC19-0006-0000	Daniel McGowan and Marjorie G. McGowan, husband and wife	SWN Production Company, LLC	17.00%	30/480
16)	04-CC19-0025-0000	Campbell Sheldon Palizzi, a single man	SWN Production Company, L.L.C.	18.00%	36/777
17)	04-CC19-0026-0000	Karen A. Piehs, a single woman	Chesapeake Appalachia, L.L.C.	14.00%	14/144
18)	04-CC19-0027-0000	William D. McAleer, a single man	SWN Production Company, LLC	14.00%	30/480
19)	04-CC18-0033-0000	Richard E. Ryan and Carolyn G. Ryan, husband and wife	SWN Production Company, L.L.C.	16.00%	11/468
20)	04-C19K-0018-0000	Brooke County Board of Education, a West Virginia Public Corporation	SWN Production Company, LLC	18.00%	30/480
21)	04-CC19-0038-0000	Wheeling & Lake Erie Railway Company, a Delaware corporation, sublessee of the Pittsburgh & West Virginia Railway Company	SWN Production Company, LLC	18.00%	53/702
22)	04-CC18-0032-0000	Brooke County Board of Education, a West Virginia Public Corporation	Chesapeake Appalachia, L.L.C.	18.00%	26/181
23)	04-CC18-0007-0000	The Boffo Family Limited Partnership, a West Virginia Limited Partnership	SWN Production Company, LLC	17.00%	30/480
		The Boffo Family Limited Partnership, a West Virginia Limited Partnership	Chesapeake Appalachia, L.L.C.	17.00%	12/82
			SWN Production Company, LLC		30/480
			Chesapeake Appalachia, L.L.C.		13/469
			SWN Production Company, LLC		30/480

(Mineral Deed)

4700900307

# SWN

Production Company™

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

April 27, 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: OV Royalty Trust LLC BRK 405H in Brooke County, West Virginia, Drilling under Lee Road, Cross Creek Road, Rabbit Hill Road, and Jamison Lane.

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 Lee Road, Cross Creek Road, Rabbit Hill Road, and Jamison Lane. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,



Bailey Brougher  
Landman – SW Appalachia  
SWN Production Company, LLC

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$\frac{R^+}{A} \rightarrow V^+$

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

May 13, 2020

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

**RE: Proposed Expedited Modification: OV Royalty Trust LLC BRK 405H**

Dear Ms. Adkins

Enclosed please find the required documents to modify this well. We are wanting to extend the lateral. This well is situated on the OV Royalty Trust's property, in Cross Creek District, Brooke County, West Virginia.

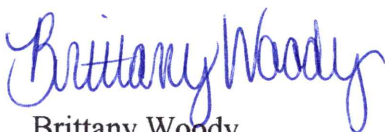
Enclosed you will find:

- Updated 6B
- Updated Casing Program
- Mylar Plat
- 6A1

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

Thank you.

Sincerely,



Brittany Woody  
Senior Regulatory Analyst  
Southwestern Energy Production Company, LLC

CHK# 1051375  
Amt \$ 5000  
Date 5/14/20

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