

#### 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

### Thursday, November 19, 2020 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC **POST OFFICE BOX 12359** 

SPRING, TX 773914954

Permit Modification Approval for JOHN GOOD JR BRK 201H Re:

47-009-00322-00-00

Modified Cement Yield

#### 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

Operator's Well Number: JOHN GOOD JR BRK 201H

Farm Name: JOHN PRATHER GOOD JR IRREVOCABLE TRUST

U.S. WELL NUMBER: 47-009-00322-00-00

Horizontal 6A New Drill

Date Modification Issued: November 19, 2020

Promoting a healthy environment.

API NO. 47-009 - 0 0322 Map OPERATOR WELL NO. John Good Jr. BRK 201H Well Pad Name: John Good Jr. BRK

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

1) Well Operator: SWN Produ	ction Co., LLC	494512924	009- Brooke	3-Buffalo	247- Bethany 62 <u>∩</u>
*		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Joh	nn Good Jr. BRI	K 201H Well Pad	Name: John G	Good Jr. Bl	RK
3) Farm Name/Surface Owner:	John Prather Good Jr. Irrevoca	Public Road	d Access: McA	doo Ridge	Road
4) Elevation, current ground:	1154' El	evation, proposed p	oost-construction	n: 1154'	
5) Well Type (a) Gas X Other	Oil	Unde	rground Storage		
(b)If Gas Shall	llow X	Deep	eks Sala saman da kalansaka kalan nyakan ta sarahapan mengalanjuan kalansak samah Galassak kalansak	and an ann outdoor with the transfer for the contract of	
6) Existing Pad: Yes or No Yes	izontal X		C	- Isl	9 10-15-20
7) Proposed Target Formation(s) Target Formation- Marcellus, Up-Dip well to	* * * * * * * * * * * * * * * * * * * *	*	nd Expected Pre	ssure(s):	
8) Proposed Total Vertical Depth	1: 5892'				Office of Oil and Gas
9) Formation at Total Vertical D	8.4				NOV 0 4 2020
10) Proposed Total Measured De	epth: 17959'				WV Dep
11) Proposed Horizontal Leg Lea	ngth: 11502.08		powialny data-ingular menganga majakhan kada an-empanjahi u kesistigi bahan		- rotuctio
12) Approximate Fresh Water St	rata Depths:	326'			
<ul><li>13) Method to Determine Fresh</li><li>14) Approximate Saltwater Dept</li></ul>		Salinity Profile Ana Profile Analysis	alysis; Logs on	pad	
15) Approximate Coal Seam Dep	oths: 308'				
16) Approximate Depth to Possil	ble Void (coal mi	ne, karst, other): 1	lone that we a	e aware o	f.
17) Does Proposed well location directly overlying or adjacent to		ms Yes	No .	X	
(a) If Yes, provide Mine Info:	Name:				
	Depth:				
	Seam:				
	Owner:				

WW-6B (04/15) API NO. 47-009 - 0322 HOD

OPERATOR WELL NO. \_John Good Jr. BRK 201H
Well Pad Name: \_John Good Jr. BRK

18)

## CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	426'	426'	418 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1648'	1648'	522sx/CTS
Production	5 1/2"	New	P-110 HP	20#	17959"	17959"	Tail 3206sx/ 100' Inside Intermediate
Tubing							
Liners		AND THE COLUMN TWO IS NOT THE COLUMN TWO IS		erkala filolofiska filolofiska filolofiska kolofiska a del trivagna (a.s. A. et e.s. andre el (a.s. a.e. el el		eren et terkelmen, et applichte der de de green er kindre et bestellen op de kondrak de beste afhandelde	

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TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated  Max. Internal  Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.380	2730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				And the control of th
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			The second secon				
Liners						REG Office of	CENTED

NOV 0 4 2020

WV Department of Environment, relection

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Kind:			
	×		
Sizes:			
Depths Set:			



Check#1053369 10/27/2020 \$5,000.00

9-00322 MDD

**SWN Production Company, LLC** 

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

November 2, 2020

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

RE: Proposed Expedited Modification: John Good Jr. BRK 201H

Dear Ms. Adkins

Enclosed please find a modification for the above captioned well. We made changes to the cement yield on page two of the 6B per the DEP inspector's request. This well is situated on the Good's property, in Buffalo District, Brooke County, West Virginia. Enclosed documents:

-Updated 6B

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

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WV Department of Environmental Protection