

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, November 18, 2020 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re:

Permit Modification Approval for BRIAN TESLOVICH BRK 405

47-009-00313-00-00

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

Chief

Operator's Well Number: BRIAN TESLOVICH BRK 405

Farm Name: BRIAN L. TESLOVICH

U.S. WELL NUMBER: 47-009-00313-00-00

Horizontal 6A New Drill

Date Modification Issued: November 17, 2020

Promoting a healthy environment.

WW-6B (04/15)

API NO. 47-009 - CO 3 13 MOD OPERATOR WELL NO. Brian Teslovich BRK 405H Well Pad Name: Brian Teslovich 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	3-Buffalo	641-Tiltonsville			
The second second section of the second seco		Operator ID	County	District	Quadrangle			
2) Operator's Well Number: Brian Tes	slovich BR	K 405H Well Pad	Name: Brian	Teslovich	BRK			
3) Farm Name/Surface Owner: Brian I	Teslovio	Public Roa	d Access: McC	Cord Hill Ro	oad			
4) Elevation, current ground: 1149'	Ele	evation, proposed	post-construction	on: 1151'				
5) Well Type (a) Gas X Other	Oil	Unde	erground Storag	ge				
(b)If Gas Shallow Horizontal	X			-Al	010.15.20			
6) Existing Pad: Yes or No No					10.15.20			
7) Proposed Target Formation(s), Dept Target Formation-Marcellus, Up-Dip well to the Nort	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- 5744', Target Base TVD- 5795', Anticipated Thickness- 51', Associated Pressure- 3767							
8) Proposed Total Vertical Depth: 57	79'							
9) Formation at Total Vertical Depth:	Marcellus	3						
10) Proposed Total Measured Depth:	19457'							
11) Proposed Horizontal Leg Length:	12,343.20	0'			RECEIVED			
12) Approximate Fresh Water Strata D	epths:	115'			Office of Oil and Gas			
13) Method to Determine Fresh Water	Depths:	Nearby spring			NOV 0 4 2020			
14) Approximate Saltwater Depths: 4		y Profile		Env	Wy first cont of			
15) Approximate Coal Seam Depths:	266							
16) Approximate Depth to Possible Vo	oid (coal mi	ine, karst, other):	Possible Void	266'				
17) Does Proposed well location conta directly overlying or adjacent to an act		ms Yes	No.	, <u>X</u>				
(a) If Yes, provide Mine Info: Nam	ie:							
. Depr	th:							
Sear	n:							
Own	ner:							

API NO. 47- 009 -

OPERATOR WELL NO. Brian Teslovich BRK 405H
Well Pad Name: Brian Teslovich 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#	320'	320'	323 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1609'	1609'	632 sx/CTS
Production	5 1/2"	New	HCP-110	20#	19457'	19457'	lead 776sx/Tail 3202sx/ 100' Inside Inters
Tubing							
Liners							

C. Sel 10.15.20

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	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	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			Administración de la companya de la			C 77 10 10 10 10 10 10 10 10 10 10 10 10 10	2017 48h
Liners						Office of Oil	and Gas

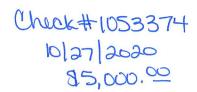
NOV 0 4 2020

V/I/ Department of Environmental Protection

PACKERS

Kind:		
Sizes:		
Depths Set:		





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 57th Street Charleston, WV 25304

RE: Proposed Expedited Modification: Brian Teslovich BRK 405H

Dear Ms. Adkins

Office of Oil and Gas
NOV 0 4 2020

WV Department of Environmental Profession

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 Teslovich's property, in Buffalo District, Brooke County, West Virginia. Enclosed documents:

-Updated 6B

Office of Oil and Gas

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

NOV 0 4 2020

WV Department of Environmental Protection

Thank you.

Sincerely,

Brittany Woody

Senior Regulatory Analyst

Southwestern Energy Production Company, LLC

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