

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 16, 2020 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

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

Re:

Permit Modification Approval for CONSTANCE TAYLOR WTZ 2011

47-103-03354-00-00

Cement Yield Updated

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: CONSTANCE TAYLOR WTZ 201H

Farm Name: CONSTANCE A TAYLOR

U.S. WELL NUMBER: 47-103-03354-00-00

Horizontal 6A New Drill

Date Modification Issued: 11/16/2020

Promoting a healthy environment.

WW-6B (04/15) 4 1 0 3 C 3 3 5 4 mod

OPERATOR WELL NO. Constance Taylor WTZ 201H
Well Pad Name: Constance Taylor WTZ

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

1) Well Operat	or: SWN	Production C	Co., LLC	494512924	103-Wetzel	7-Proctor 681-Wileyville
- , , ,				Operator ID	County	District Quadrangle
2) Operator's V	Well Numbe	r: Constance	Taylor W	TZ 201H Well Pac	Name: Const	tance Taylor WTZ
3) Farm Name/	/Surface Ow	ner: Consta	nce A. Ta	aylor Public Roa	d Access: Broo	ck Ridge Road
4) Elevation, c	urrent groun	d: 1430'	El	evation, proposed	post-construction	on: 1430' REGSIVED Office of Oil and Gas
5) Well Type	(a) Gas	x	Oil	Unde	erground Storag	ge
	Other					NOV 0 4 2020
	(b)If Gas	Shallow	<u>x</u>	Deep		WV Department of Environmental Protection
		Horizontal	<u>x</u>		2 5)	
6) Existing Pac	l: Yes or No	Yes			- <i>DN</i>	NH 10/27/20
 Proposed Ta Target Formation- 	urget Format Marcellus, Up-Dip	ion(s), Depth well to the North, 1	(s), Antic arget Top TVD	ipated Thickness a - 7397', Target Base TVD-	nd Expected Pr - 7441', Anticipated Th	ressure(s): nickness- 44', Associated Pressure- 4837
8) Proposed To	otal Vertical	Depth: 742	5'			
9) Formation a			Marcellus	•		
10) Proposed T	Total Measur	red Depth:	21545'			
11) Proposed F	Horizontal L	eg Length:	13479.92	!		
12) Approxima	ate Fresh Wa	ater Strata De	pth s:	365'		
13) Method to	Determine F	resh Water I	Depths: L	.ogs on Pad		
14) Approxima	ate Saltwater	Depths: 14	67' Salini	ty Profile Analysis		
15) Approxima	ate Coal Sea	m Depths: 1	382'			
16) Approxima	nte Depth to	Possible Voi	d (coal mi	ne, karst, other):	None that we a	are aware of.
17) Does Propo directly overlyi				ns Yes	No	x
(a) If Yes, pro	ovide Mine	Info: Name	•			
(a) 11 1 00, pr		Depth				
		Seam:				
		Owne				

WW-6B (04/15) 47103030354 mm

OPERATOR WELL NO. Constance Taylor WTZ 201H
Well Pad Name: Constance Taylor WTZ

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#	126'	126'	CTS	
Fresh Water	13 3/8"	New	J-55	54.4#	470"	470'	362 sx/CTS	
Coal	See	Interm	Casing					
Intermediate	9 5/8"	New	J-55	36#	2900'	2900'	826 sx/CTS	
Production	5 1/2"	New	P-110 HP	20#	21545'	21545'	Tail 3852aw/400 Anglog Informatiate	nd Gas
Tubing							NOV 04	2020
Liners								
		L	I				W// Dripartr Environmental	nent of Frotectio

DMH 10/27/20

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	2730	633	Class A	1.20/30% Excess
Coal	See	Interm	Casing				
Intermediate	9 5/8"	12 1/4"	0.352	3520	1768	Class A	1.19/50% 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:		
Depths Set:		



Uhuak# 1053301 10/27/2020 35,000.00 103-03354

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

Office of Oil and Gas

NOV 0 4 2020

WW Department of Environmental Protection

RE: Proposed **Expedited Modification:** Constance Taylor WTZ 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 Taylor's property, in Proctor District, Wetzel 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

R2 ~V+°