

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 VIOLET COSS BRK 10H

47-009-00301-00-00

Cement yield on Casing Plan 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

Chief

Operator's Well Number: VIOLET COSS BRK 10H

Farm Name: LINDA COEN (LIFE ESTATE-VIOLET L COSS

U.S. WELL NUMBER: 47-009-00301-00-00

Horizontal 6A New Drill Date Modification Issued: 11/02/2020

Promoting a healthy environment.

API NO. 47-009	- DC	1050	me	\overline{n}
OPERATOR V	VELL NO	Violet	Coss BRK	10H
Well Pad Na	me: Viole	t Coss E	RK	

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

1) Well Operato	SWN F	roduc	tion C	o LLC	49451	2924	009-Brook	01-B	uffal 620-Steubenville
i) wen Operato				,	Opera	ator ID	County	Distr	ict Quadrangle
2) Operator's W	/ell Number	: Viole	et Cos	s BRK 1	10H	_ Well Pa	ad Name: Vio	let Coss	BRK
3) Farm Name/	Surface Ow	ner: Lir	ida Coen (L	ife Estate-Vio	let L Coss)	Public Ro	oad Access: C	oss Roa	d
4) Elevation, cu	rrent groun	d: <u>1</u>	173'	E	levation	, propose	d post-constru	ction: 11	73'
5) Well Type	(a) Gas	x		_ Oil		Un	derground Sto	rage	
	Other								
	(b)If Gas	Shall	ow	X		Deep		10	
		Horiz	contal	<u>x</u>		-	(k! ()	3.20.20
6) Existing Pad						·	_	YU	<i>D</i> • • • • • • • • • • • • • • • • • • •
7) Proposed Tar Target Formation-	rget Format Marcellus, Down-	ion(s), Dip Well Id	Deptho the South	(S), Anti- h, Target Top	cipated 7 o TVD- 5792	Thickness ', Target Base	and Expected	Pressure	(S): ss- 62', Associated Pressure- 3805
8) Proposed To	tal Vertical	Depth:	5832	2'					
9) Formation at			_	Viarcellu	is				
10) Proposed T				20,676					
11) Proposed H				11,010.8	33				
12) Approxima				pths:	334'				
13) Method to 1	Determine F	resh V	Vater [Depths:	Deepes	t Nearby	Springs		
14) Approxima	te Saltwater	Depth	s: 507	" Princeton	High Salinity	Sandstone 8	& Salinity Profile Ca	lculation(Viol	et Coss FRECEIVED47-009-00146; Office of Oil and Gas
15) Approxima									MAR 2 4 2020
16) Approxima					nine, kar	st, other):	Possible Vo	oid 209'	WV Department of
17) Does Propo								!	Environmental Protection
directly overlyi	ing or adjace	ent to a	in activ	e mine?	Y Y	'es		No x	
(a) If Yes, pro	ovide Mine	Info [.]	Name	÷					
(a) ii ies, pro	TIGO IVIIIIO		Depth	***************************************					
			Seam:			· · · · · · · · · · · · · · · · · · ·			
			Owne						

WW-6B	
(04/15)	

API NO. 47- 009 -

OPERATOR WELL NO. Violet Coss BRK 10H
Well Pad Name: Violet Coss 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#	388'	388'	585 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1630'	1630'	635 sx/CTS
Production	5 1/2"	New	HCP-110	20#	20,676'	20,676'	lead 77 fsx/Tail 3468sx/100' Inside Interes
Tubing							
Liners							

10-15-20

Cement Wall Anticipated TYPE Cement Burst Pressure Wellbore Max. Internal Yield Thickness Size (in) Type (psi) Diameter (in) (cu. ft./k) Pressure (psi) (in) Conductor 1.20/30% Excess 81 Class A 30" 0.25 2120 20" Fresh Water 1.20/30% Excess 633 Class A 2730 13 3/8" 17.5" 0.380 Coal See Surface Casing Intermediate 1768 Class A 1.19/40% Excess 3520 9 5/8" 12 1/4" 0.352 Production Class A 1.19/5% Excess 14360 10,500 5 1/2" 8 3/4"-8 1/2" 0.361 Tubing Liners

PACKERS

Kind:		
Sizes:		
Depths Set:		



9-00301

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 <u>Expedited Modification:</u> Violet Coss BRK 6H, Violet Coss BRK 10H, & Violet Coss BRK 206H

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 Edge's property, in Sand Hill District, Marshall 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,

RECEIVED
Office of Oil and Gas

OCT 2 3 2020

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Brittany Woody

Senior Regulatory Analyst

Southwestern Energy Production Company, LLC

WV Department of Environmental Protection

R2 2V+°

CLXX 1053066 Para Le 1013120