

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

Tuesday, July 16, 2019 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re:

Permit Modification Approval for SANDRA PARR BRK 5H

47-009-00245-00-00

Side Track

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: SANDRA PARR BRK 5H

Farm Name: ANTHONY BRUCE PARR, ET AL

U.S. WELL NUMBER: 47-009-00245-00-00

Horizontal 6A New Drill

Date Modification Issued: July 16, 2019

Promoting a healthy environment.



SWN Production Company, LLC

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

February 14, 2019

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

RE: Modification: Sandra Parr BRK 5H

Dear Ms. Adkins

Enclosed please find the new 6B, Casing, and WBD for the above captioned well. We had to do a side track. This well is situated on the Parr's property, in Buffalo District, Brooke County, West Virginia.

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

Thank you.

Sincerely,

Brittany Woody

Regulatory Analyst

Southwestern Energy Production Company, LLC

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Office of Oil and Gas

FEB 1 9 2019

WV Department of Environmental Protection

R2 NV+°

API NO. 47-009 -		
OPERATOR WELL	NO.	Sandra Parr BRK 5H
Well Pad Name:	Sandra	Parr BRK Pad

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

) Well Operat	or: SWN F	Production C	o., LLC	494512924	009- Brook	e 3-Buffalo	247-Bethany
,		***************************************		Operator ID	County	District	Quadrangle
) Operator's V	Well Number	r: Sandra Pa	arr BRK	5H Well P	ad Name: San	dra Parr BR	K Pad
) Farm Name/	Surface Ow	ner: Anthony I	Bruce Parr,	ET AL Public R	oad Access: At	chison Road	l .
) Elevation, co	urrent groun	d: 1276'	E	levation, propose	d post-construc	etion: 1276'	
) Well Type	(a) Gas	x	Oil _	Un	derground Stor	age	The state of the s
	Other						
	(b)If Gas	Shallow	X.	Deep			
		Horizontal	X		1	211	2.14.19
) Existing Pac					_ (_ /	lalik	2.19.19
) Proposed Ta Target Formation	arget Format - Marcellus, Up-D	ion(s), Depth ip Well to the North	(s), Antic Target Top	ripated Thickness	and Expected TVD- 6475', Anticipat	Pressure(s): ted Thickness- 45',	Associated Pressure- 4209
) Proposed To	otal Vertical	Depth: 644	8'				
) Formation a	t Total Verti	cal Depth:	Marcellus	S	a a successive of the Manuscriptor and a successive of the Association		gastria (1990). La socia del Construito de la productiva de la productiva de la productiva de la productiva de
0) Proposed T	Total Measur	red Depth:	20580'				
1) Proposed F	Horizontal L	eg Length:	4682.78'				,
2) Approxima	ate Fresh Wa	iter Strata De	pths:	336'			
3) Method to	Determine I	resh Water D	epths:	Robert Caldwell	Spring		
4) Approxima	ate Saltwater	Depths: 75	9' TVD -	Salinity Profile			
5) Approxima	ate Coal Sea	m Depths: 6	13'				
6) Approxima	ate Depth to	Possible Voi	d (coal m	ine, karst, other)	None that w	e are aware	of.
7) Does Prope lirectly overly				Yes	1	No <u>×</u>	
(a) If Yes, pro	ovide Mine	Info: Name	:				5
		Depth	:				Office of Oil ar
		Seam:					1 1 1
		Owne	r:				FEB 1920
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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#	676'	676'	709 sx/CTS
Coal							
Intermediate	9 5/8"	New	J-55	36#	1972'	1972'	745 sx/CTS
Production	5 1/2"	New	HCP-110	23#	0'	6000'	Lead 1010and Tell 2001aul Inside Integral
Production	5 1/2"	New	HCP-110	20#	6000'	14580'	
-	10						

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(and () 7 11/10	
1	DE 2-14-19	

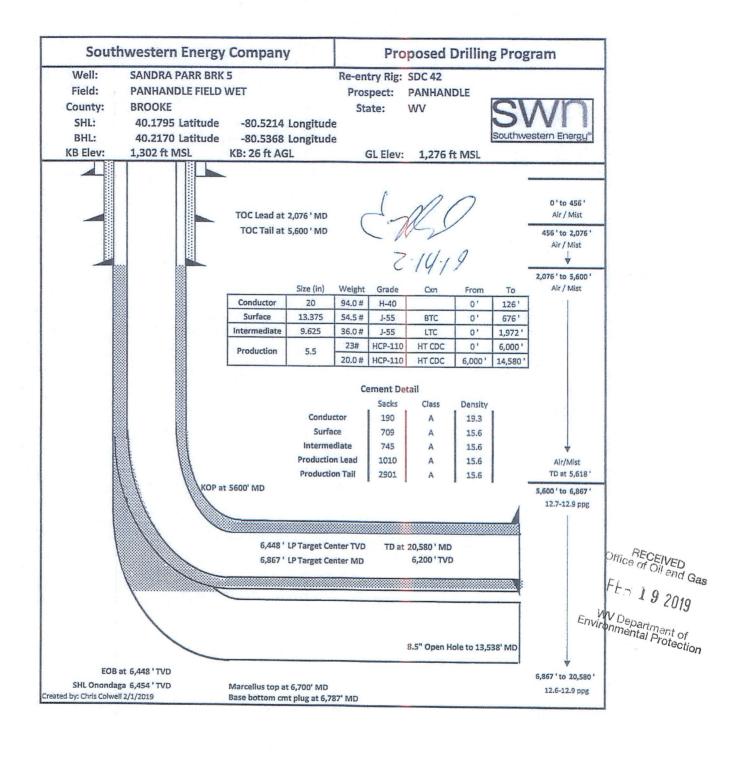
TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal							
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	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/50% Excess
Liners			The interest of the first of the second best of the second				

PACKERS

Kind:	
Sizes:	Dro
Depths Set:	Office of Oil and G
	EB 1 9 2019

WV Department of Environmental Protection

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SWN Production Company, LLC 179 Innovation Drive Jane Lew, WV 26378 Tel: 304 884 1610 Fax: 304 471 2497

www.swn.com

July 11, 2019

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

RE: Proposed New Well Sandra Parr BRK 5H

Dear Ms. Adkins

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on the Parr's property, in Buffalo District, Brooke County, West Virginia.

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

Thank you.

Sincerely,

Brittany Woody

Senior Regulatory Analyst

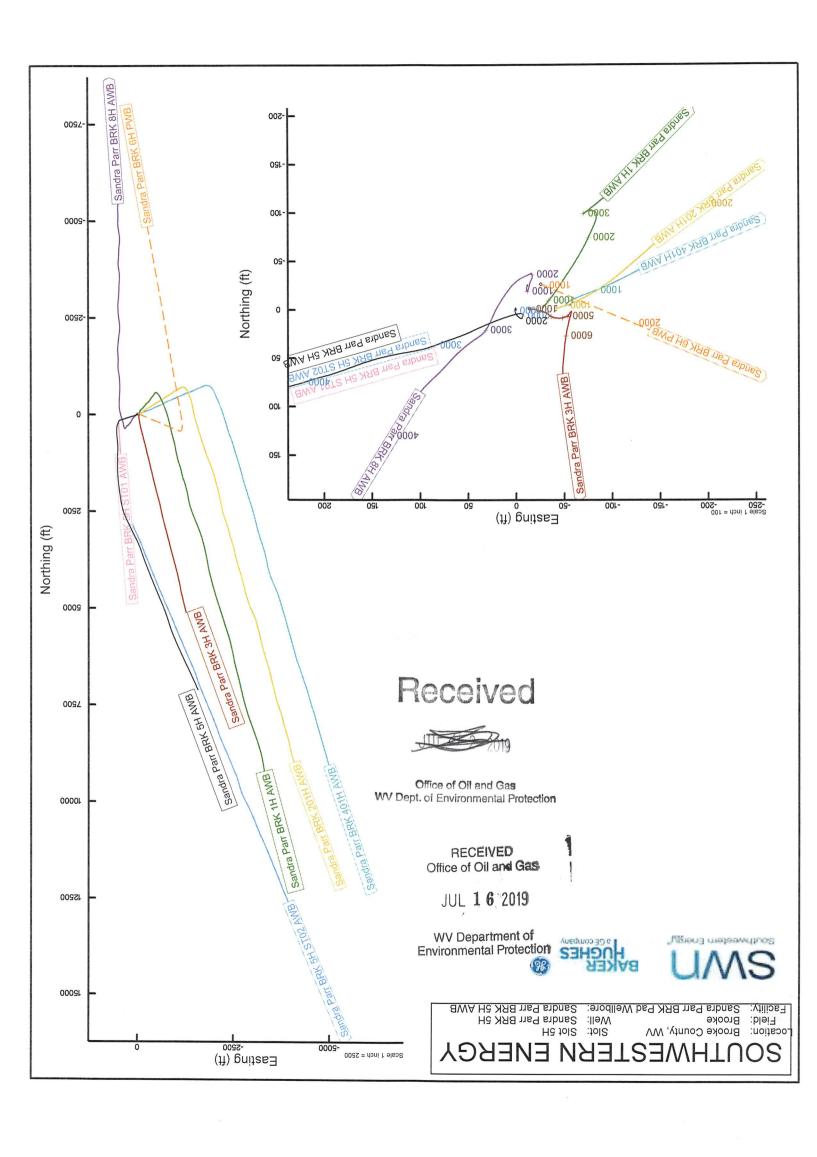
Office of Oil and Gas WV Dept. of Environmental Protection

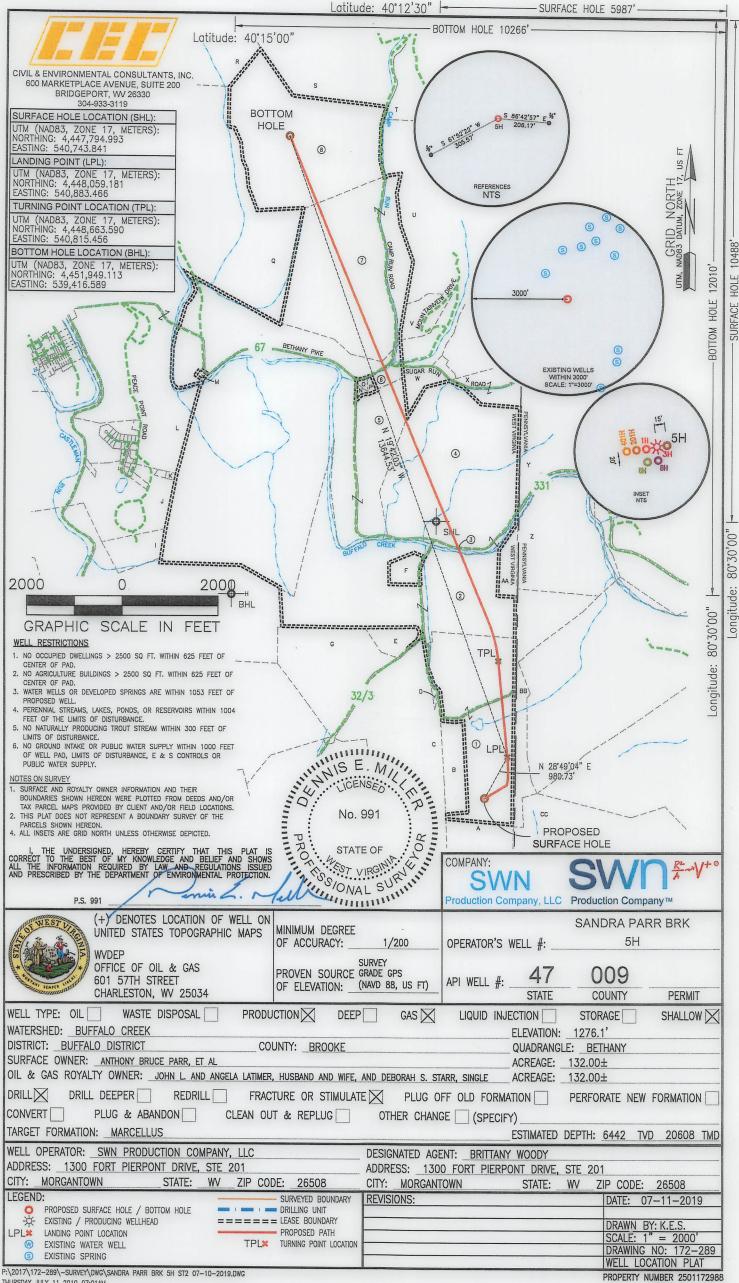


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CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 600 MARKETPLACE AVENUE, SUITE 200 BRIDGEPORT, WV 26330 304-933-3119

	WELL BORE TABLE FOR SURFACE OWNE	RS
TRACT	SURFACE OWNER	TAX PARCEL
1	(S) ANTHONY BRUCE PARR, SANDRA L. PARR, RAYMOND LEE, NANCY PARR, MICHAEL MAHAN, AND PAULA MAHAN	03-B49-0005
	(R) JOHN L. LATIMER AND ANGELA LATIMER AND DEBORAH S. STARR	
2	STATE OF WEST VIRGINIA, DEPARTMENT OF COMMERCE, DIVISION OF NATURAL RESOURCES, WILDLIFE RESOURCES SECTION	03-B44-0014
3	WEST VIRGINA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	BETHANY PIKE
4	FORNEY AND SONS HOLDING COMPANY L.L.C	03-B44-0005
5	GENE CHARLES VALENTINE TRUST DATED 11/26/86	03-B43-0028
6	CURTIS LEE NEEL AND LOUANN L. NEEL, HUSBAND AND WIFE, JTWROS	03-B44-0007
7	RAYMOND L. TREDWAY, SR. AND LINDSEY G. TREADWAY, JTWROS	03-B39-0011
8	MARTHA MAY SEABRIGHT (LIFE TENANT) JAMES H. SEABRIGHT AND CECILIA M. SEABRIGHT, HUSBAND AND WIFE	03-B39-0010

TRACT	SURFACE OWNER	TAX PARCEL
А	THE RANCH SPORTSMANS CLUB, INC., BY NICK MUSTACHIO, PRESIDENT	03-B49-0010
В	ANTHONY PARR, SANDRA PARR, RAYMOND PARR, NANCY PARR, LEONARD BOYCE AND KAREN BOYCE	03-B49-0004
С	JAMES WARREN & PATRICIA MCKEEN	03-B49-0003
D	ANTHONY BRUCE PARR, SANDRA L. PARR, RAYMOND LEE PARR AND NANCY J. PARR	03-B49-0005
E	CLIFFORD E. COUNSELMAN	03-B44-0013
F	BETHANY COLLEGE	03-B44-0014.1
G	CLIFFORD E. COUNSELMAN	03-B49-0002
Н	BETHANY COLLEGE	03-B43-0062
1	SAMUEL J. AND MELANIE DONINI (SURV)	03-B43-0057
J	BETHANY COLLEGE	03-B38-0031
K	MARY E. COLLINS	03-B43-0049
L	RANDY L. AND VANESSA J. COLLINS (SURV)	03-B43-0049.2
М	CLYDE B. ROBERTS	03-B43-0029
N	MORRIS G. MAIN	03-B44-0010
0	MORRIS G. MAIN	03-B44-0009
Р	MORRIS G. MAIN	03-B44-0008
Q	MARK W. OWEN 1 INT. AND VIRGINIA BEALL KRUETZ 1 INT.	03-B38-0024
R	MARK W. OWEN 1 INT. AND VIRGINIA BEALL KRUETZ 1 INT.	03-B38-0019
S	JAMES K. AND MARTHA MAY SEABRIGHT	03-B39-0008
T	JAMES B. CALDWELL	03-B39-0009
U	JAMES R. AND LINDA R. GREATHOUSE	03-B39-0012
٧	VICKI G. AND SHAWN P. HAMILTON	03-B44-0001
W	MILDRED MAIN	03-B44-0006
Χ	MILDRED MAIN	03-B44-0004
Y	CALVIN H. MYERS, JR.	370-018-00-00-0002-00
Z	ELIZABETH K. SCHOLLAERT	230-024-00-00-0008-00
AA	LARRY AND DEBBIE DOUGLAS	03-B44-0012
BB	ANTHONY BRUCE PARR, SANDRA L. PARR AND RAYMOND LEE PARR	230-024-00-00-0007-0
CC	ROBERT E. & JUDITH F. WRIGHT	023-00-00-0003-0

REVISIONS:	COMPANY:	SWN oduction Company, LLC	SVV Production Con	R ² →V ⁺ °
	OPERATOR'S	SANDRA PARR I	BRK	DATE: 07-11-2019
	WELL #:	5H		DRAWN BY: K.E.S.
	DISTRICT: BUFFALO DISTRICT	COUNTY: BROOKE	STATE: WV	SCALE: N/A DRAWING NO: 172-289 WELL LOCATION PLAT 2

