

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax

Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

PERMIT MODIFICATION APPROVAL

September 17, 2015

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

Re: Permit Modification Approval for API Number 900163, Well #: OV ROYALTY TRUST BRK 201H

6B - Revised saltwater depth, Revised bottom hole location - new plat, 6A-1

Oil and Gas Operator:

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.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Suph Bu For

Gene Smith

Assistant Chief of Permitting

Office of Oil and Gas

4700900163

API NO. 47- 09 OPERATOR WELL NO. OV Royalty Trust BRK 201H
Well Pad Name: OV Royalty Trust PAD

Wag

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

1) Well Operate	or: SWN P	roduction C	o., LLC	494512924	009-Brooke	002-Cros	620- Stuebenville
-				Operator ID	County	District	Quadrangle
2) Operator's V	Vell Number	OV Royalty	/ Trust BR	K 201H Well Pad	Name: OV R	oyalty Trus	st PAD
3) Farm Name/	Surface Owr	ner: The Trust	of Gene Va	lentine Public Road	d Access: Brin	ker Road	
4) Elevation, cu	irrent ground	i: <u>1181'</u>	Ele	evation, proposed p	oost-construction	on: 1181'	
5) Well Type	(a) Gas	х	Oil	Unde	rground Storag	ge	
	Other						
	(b)If Gas	Shallow	X	Deep		 _	
		Horizontal	x				
6) Existing Pad	: Yes or No	yes					
•	_		• • •	pated Thickness ar rget Base TVD- 7132'		` '	sociated Pressure- 4600
8) Proposed To	tal Vertical I	Depth: <u>576</u> 8	8'				
9) Formation at	Total Vertic	al Depth: _	Marcellus				
10) Proposed Te	otal Measure	ed Depth:	14,595'				
11) Proposed H	orizontal Le	g Length:	7569'				·
12) Approxima	te Fresh Wat	ter Strata De _l	oths:	53'			
13) Method to I	Determine Fi	resh Water D	epths: fr	om nearby water	wells		
14) Approximat	te Saltwater	Depths: 11	45'				
15) Approxima	te Coal Sean	n Depths: 2	30-245'		-		
16) Approxima	te Depth to F	Possible Voic	l (coal mi	ne, karst, other): 📐	oid Expected	230-245'	
17) Does Propo directly overlying				ns Yes	No	*AECEN	VED 1 and Gas 4 2015
(a) If Yes, pro	vide Mine Ir	nfo: Name:			O,	moe of Or	, 2015
., .,		Depth:		-		SEP 1	
		Seam:				., nei	partment of ental Protection
		Owner	:			MA	entalPio
					<u></u>	EUAILO	

RECEIVED Office of Oil and Gas

WW-6B 4700900163 No.

SEP 1 7 2015

API NO. 47- 09

OPERATOR WELL NO. OV Royalty Trust BRIX 201H Well Pad Name: OV Royalty Trust PAD

18)

WV Department of Environmental Protection CASING AND TUBING PROGRAM

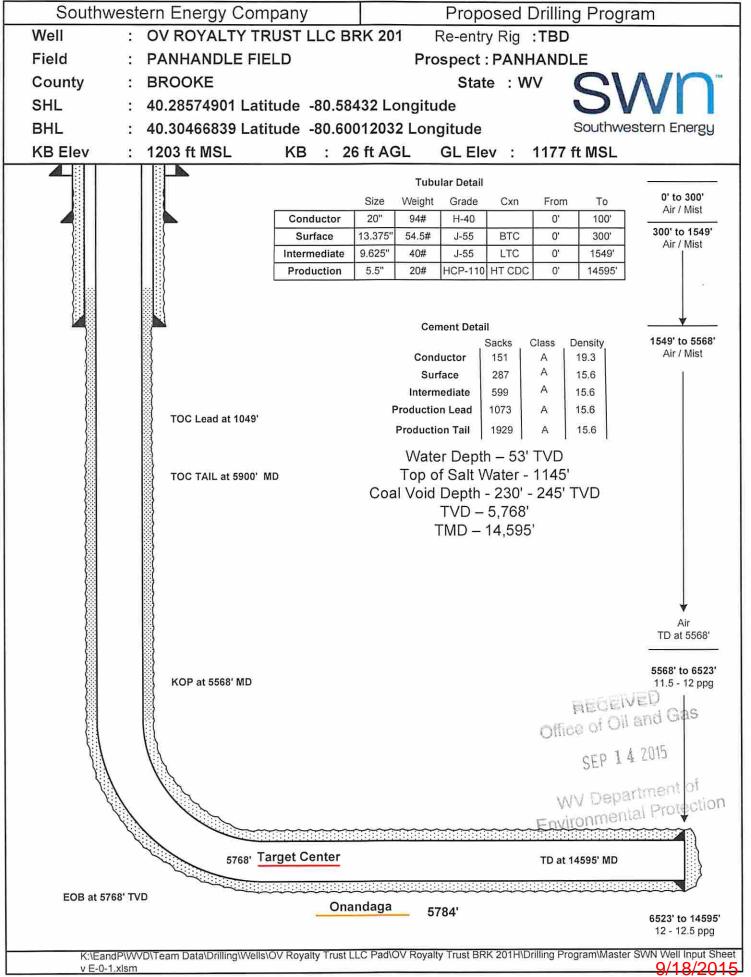
TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	J-55	54.5#	345'	345'	287 sx/CTS
Coal	9 5/8"	New	J-55	40#	1549'	1549'	599 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	14,595'	14,595'	Lead 1073 pr ts3 1929 ps/1007 bookle (2)
Tubing	2 3/8'	New	P-110	4.7#	Approx. 5768'	Approx. 5768'	
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (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	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	3250	Class A	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners							

PACKERS

Kind:	10K Arrowset AS1-X		
Sizes:	5 1/2"		
Depths Set:		,	

4700900163 Nod





PO Box 1300 Jane Lew, WV 26378 PHONE: (832) 796-1610

September 1, 2015

Ms. Laura Adkins Office of Oil & Gas 601 57th Street Charleston, WV 25304 4700900163 Md

RE: New Well OV Royalty Trust LLC BRK 201H

Dear Ms. Adkins

Enclosed please find a revised WW6A1 and mylar for the above captioned well. We would like to shift the wellbore. We will not be crossing an additional leases. We will be missing one and it has been removed from the 6A1. This well is situated on the OV Royalty Trust property, in Cross Creek District, Brooke County, West Virginia.

If you have any questions or desire additional information, please me at 304-884-1614

Thank you

Sincerely.

Dee Southall

Regulatory Supervisor

Southwestern Energy Production Company, LLC

PO Box 1300

Jane Lew, WV 26378

Office of Oil and Gas

SEP 0 2 2015

WV Department of Environmental Protection

The Right People doing the Right Things, wisely Investing the cash flow from our underlying Assets, will create Value+

Attached hereto and made part of the State of West Virginia Oil and Gas Permit Form WW-6A1 by, SWN Production Company 🗓 L.C. Operator OV Royalty Trust L.L.C. 201H Exhibit "A"

11) 8 9 $\overline{\omega}$ 2) 1) <u>5</u> 和fracif#||| **||TaxiParcel|||||||Lease||Number||Lessor|| 4-C22C-163.01 1-120107-001 Linda Rosser 4-C22C-160 47-000446-000 John Isinghood 4-C22C-163 4-C22C-128 4-C22G-83 4-CC18-39 4-CC22-40 4-CC22-33 4-C22G-57 4-CC22-41 47-000895-000 Carolyn Freemar 47-000313-000 Betty Hanlon 47-000551-000 Charles V Isinghood and Betty Isinghood 47-000692-000 Charles R. Boggs 47-000551-000 Charles V. Isinghood and Betty Isinghood 47-000780-001 Aretta Mina Ulrich Keadle 47-000446-000 John Isinghood 47-000780-002 James M. Simpson II 47-000780-005 David Nurmi 1-324547-000 1986 1-120107-002 Earl Price 1-120107-001 Linda Rosser 1-329412-001 Charles Melvin Ulrich Chesapeake Appalachia L.L.C. Range Resources - Appalachia L.L.C. Great Lakes Energy Partners L.L.C. Gene Charles Valentine Truste and November 26, Brooke County, West Virginia Chesapeake Appalachiaरि.L& SWN Production Company दि.C. Chesapeake Appalachia, L.L.C. Range Resources - Appalachia L. L.C **SWN Production Company, L.L.C SWN Production Company, L.L.C.** Chesapeake Appalachia, L.L.C. **SWN Production Company, L.L.C SWN Production Company L.L.C.** SWN Production Company L.L.C. **SWN Production Company L.L.C. SWN Production Company, L.L.C.** SWN Production Company, L.L.C. SWN Production Company, L.L.C. SWN Production Company, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C. SWN Production Company, L.L.C. SWN Production Company, L.L.C. Chesapeake Appalachia, L.L.C. Cheaspeake Appalachia, L.L.C. Cheaspeake Appalachia, L.L.C. SWN Production Company, L.L.C. Chesapeake Appalachia L.L.C Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Great Lakes Energy Partners L.L.C. Gas ni**g**ent 18.00% 12.50% 18.00% 18.00% 18.00% 14.00% 18.00% 18.00% 18.00% 18.00% 18.00% 18.00% 18.00% 18.00% 17/163 14/340 14/323 14/545 14/545 30/735 30/480 18/447 30/480 30/480 30/480 30/480 16/637 10/552 20/733 11/516 17/125 30/480 14/323 30/480 30/480 10/121 BK//PG 30/480 30/480 30/740 30/740 18/33 30/480

30/480		SWN Prodcution Company L.L.C.	Chesapeake Appalachia L.L.C.		
21/193	18.00% 21/193	Chesapeake Appalachia L.L.C.	4-CC18-62 47-001458-000 Thomas J. Boyd Family Trust	4-CC18-6	12)
30/480		SWN Production Company, L.L.C.	Chesapeake Appalachia L.L.C.		
22/440	18.00% 22/440	Chesapeake Appalachia, L.L.C.	47-000780-008 Heather Marie Ruschman		
30/480		SWN Production Company, L.L.C.	Chesapeake Appalachia L.L.C.		
21/731	18.00%	Chesapeake Appalachia, L.L.C.	47-000780-006 Charles M. Nurmi		
30/480		SWN Production Company, L.L.C.	Chesapeake Appalachia L.L.C.		
21/735	18.00%	Chesapeake Appalachia, L.L.C.	47-000780-007 Christine Isabel Harvey		
30/480		SWN Production Company, L.L.C.	Chesapeake Appalachia L.L.C.	ď	cont'd
17/565	18.00% 17/565	Chesapeake Appalachia, L.L.C.	4-CC18-39 47-000780-003 Priscilla Gay Buchanan	4-CC18-3	11)
30/480	Em	SWN Production Company, L.L.C.	Chesapeake Appalachia L.L.C.		
18/732	18.00% 18/732	Chesapeake Appalachia, L.L.C.	47-000780-004 M L Buchanan, Jr.		
BK/PG	Royalty BK/PG	Lessee WC C	rcel Lease Number Lessor	t# Tax Parcel	Tract #
erator	any L.L.C. Ope	WW-6A1 by, SWN Production Compa	Exhibit "A" Attached hereto and made part of the State of West Virginia Oil and Gas Permit Form WW-6A1 by, SWN Production Company L.L.C. Operator OV Royalty Trust L.L.C. 201H Brooke County, West Virginia	Attached here	
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