State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 - 013 - 03457 County Calhou	District Washington							
C. BARCOTTI								
Operator (as registered with the OOG) Prime Operating								
그 그 바다는 가장은 아름이 없었다. 그 나는 사람이 아이를 보는 것이 되었다. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	arleston,	State WV	Zip 25301					
Top hole Northing 38.683067 Landing Point of Curve Northing Northing Northing	East East	ting <u>-81.09145</u> ing <u> </u>						
Elevation (ft) 1350' GL Type of Well	□New ■ Existing	Type of Report	□Interim ■Final					
Permit Type Deviated Horizontal Horizontal	ntal 6A	Depth Type	□ Deep ■ Shallow					
Type of Operation □ Convert □ Deepen □ Drill	□ Plug Back □ Redri	lling	□ Stimulate					
Well Type □ Brine Disposal □ CBM ■ Gas ■ Oil □ Se	condary Recovery Se	olution Mining	orage 🗆 Other					
Type of Completion	ater Intermediate l		□ Other					
Mud Type(s) and Additive(s)								
Date permit issued11/26/2012 Date drilling com	menced	Date drilling	ceased					
Date completion activities began 1/23/2013	Date completion acti	vities ceased	2/28/2013					
Verbal plugging (Y/N) Date permission granted Granted by								
Please note: Operator is required to submit a plugging applic	cation within 5 days of v	erbal permission to p	lug					
Freshwater depth(s) ft	Open mine(s) (Y/N) d	epths						
Salt water depth(s) ft	Void(s) encountered (d(s) encountered (Y/N) depths						
Coal depth(s) ft	Cavern(s) encountered	d (Y/N) depths						
Is coal being mined in area (Y/N)	RECEIVED Office of Oil and	Gas	Reviewed by:					

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API 47- 013 _ 03457 Farm name Lancaster						Well number 1209 (2605)				
CASING STRINGS	ASING Hole		Depth	New or Used	Grade wt/ft		Basket Depth(s)		Did cement circulate (Y/N) * Provide details below*	
Conductor										
Surface	12"	8 5/8"	210'	used	28	3#			Surface	
Coal	-									
Intermediate 1				. =.						
Intermediate 2										
Intermediate 3									 ·• · · · ·	
Production	7 7/8"	4 1/2"	2285'	new	10	0.5		1	150 sks	
Tubing										
Packer type and de	epth set		<u> h</u>		I.	1		1		
Comment Details										
CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	-		Volume		Cement Top (MD)		
Conductor									(hrs)	
Surface										
Coal	- ·									
Intermediate 1						•			-	
Intermediate 2										
Intermediate 3										
Production					*	·			 	
Tubing										
	tion penetrated _									
Kick off depth	. ,	· · · · · · · · · · · · · · · · · · ·								
Check all wirel	ine logs run	-	□ density □ resistivity		ed/directio a ray		duction mperature	□sonic		
Well cored	Yes □ No	Conventiona	l Sidewa	ıll	We	ere cuttings	collected [Yes 🗆	No	
DESCRIBE TE	E CENTRALIZ	ZER PLACEMEN	T USED FOR	EACHC	ASING ST	RING				
WAS WELL C	OMPLETED A	S SHOT HOLE	□ Yes ■ N	lo DI	ETAILS _	O:	ifice of Oil ar			
WAS WELL C	COMPLETED O	PEN HOLE?	Yes • No	DET	AILS		VV Departm			
WEDE TRACE	ERSTISED D	Yes A No	TYPE OF TR	ACER(S) I	USED	Env	ironmental F	Protection		

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API 47- 013 - 03457 Farm name_Lancaster

__Well number__1209 (2605)

PERFORATION RECORD

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
				11				
				 				
<u> </u>				1	 			
				+				
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						WV Depar	ment of Protection	

Please insert additional pages as applicable.

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API 47- 013	_ 03457		_ Farm	_{name} Lancas	ter		Well 1	number_12	09 (2605	5)	
PRODUCING	FORMATI	ON(S)		<u>DEPTHS</u>	TVD		MD				
Please insert ad	lditional pa	ges as ap	oplicable.								
GAS TEST	□ Build up	□ Dr	awdown	□ Open Flow		OIL TEST	□ Flow □	Pump		**	
SHUT-IN PRE	SSURE	Surface		_psi Bott	om Hole	psi	DURAT	TION OF T	EST	hrs	
OPEN FLOW	Gas 8	mcfpd	Oil 10	NGL bpd	_ bpd	Water bp	GAS Mod □ Estin	IEASUREI nated ■ 0	D BY Orifice	□ Pilot	
LITHOLOGY/ FORMATION	TOP DEPTH IN NAME TV	FT D	BOTTOM EPTH IN FT TVD	TOP DEPTH IN FT MD 0	BOTTOI DEPTH IN MD	FT DESCRI				NTITYAND , GAS, H ₂ S, ETC)	
									-32		
101											
		_						RECEIVE			
							Offi	ce of Oil an	d Gas	-	
								UN 157	2016		
n!		Table of the San					W	V Departm	ent of		
Please insert ad	lditional pag	ges as ap	oplicable.				Envir	onmental F	rotection		
Drilling Contra											
Address				City	5 5		State	Z	Zip		
Logging Compa Address PO Box			ell Service (Cambridge	е	State	Ohio Z	tip <u>43725</u>		
Cementing Con											
Address				City	9 9		State	Z	Zip		
Stimulating Co Address						_	State	z			
Please insert ad											
Completed by	Randall Wh	nited				Telenho	ne 304-342	-0121			
Completed by Randall Whited Signature Completed Title Field Supervisor							Telephone 304-342-0121 Date 6/9/2016				