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

WV Department of

		-11	vironmental Protection			
API <u>47</u> - 043 <u>- 03447</u>	County LINCOLN Pad Name GRIFFITH, AUSTI	District DUVAL				
Quad GRIFFITHSVILLE 7.5'	N Field/Pool Name	Field/Pool Name GRIFFITHSVILLE				
Farm name ALLEN, TERRY & DAW		Well Number 21	2			
operator (as registered with the OOG)	H.G. ENERGY LLC					
Address 5260 DuPONT ROAD	City PARKERSBURG	State WV	Zip 26101			
As Drilled location NAD 83/UTM Top hole No	Attach an as-drilled plat, profile orthing 4,231,567 M	view, and deviation survey Easting 416,223 M				
	rthing					
Bottom Hole No	rthing	Easting				
Elevation (ft) 997' GL	Type of Well ■New □ Exis	sting Type of Repor	t □Interim ■Final			
Permit Type Deviated Hori	zontal 🗆 Horizontal 6A 🛔 V	ertical Depth Type	□ Deep ■ Shallow			
Type of Operation □ Convert □ Dee	pen ■ Drill □ Plug Back	□ Redrilling □ Rework	□ Stimulate			
Well Type ☐ Brine Disposal ☐ CBM	□ Gas □ Oil ■ Secondary Recove	ery Solution Mining S	Storage Other			
Type of Completion ■ Single □ Multip Drilled with □ Cable ■ Rotary	ele Fluids Produced 🗈 Brine	□Gas □ NGL ■ Oil	□ Other			
Drilling Media Surface hole Air	□ Mud ■Fresh Water Intern	mediate hole Air 🗆 Mu	id # Fresh Water Brine			
Production hole Air Mud DF	resh Water Brine					
Mud Type(s) and Additive(s). N/A						
Date permit issued 6/13/2013	Date drilling commenced6/1	8/2014 Date drilling	g ceased 6/21/14			
Date completion activities began		etion activities ceased	7/15/14			
	te permission granted	Granted by				
reton plugging (178)	to permission granted	Siamed by				
Please note: Operator is required to sub-	nit a plugging application within 5	days of verbal permission to	plug			
reshwater depth(s) ft 6	50' Open mine(s	(Y/N) depths	N			
Salt water depth(s) ft 1190',	4.50	untered (Y/N) depths	N			
Coal depth(s) ft 588'-5	***	countered (Y/N) depths	N			
Is coal being mined in area (Y/N)	N		Reviewed by:			

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API 47- 043	03455	Farm n	_{ame} ALLEN,	TERRY &	DAWNA	Well	number_10)7 	
CASING	Hole	Casing		New or	Grade	ı	Basket	Did cer	ment circulate (Y/ N)
STRINGS	Size	Size	Depth	Used	wt/fl		Pepth(s)		ide details below*
Conductor	12 1/4"	11 5/8"	30'	Used		LS			Sand In
Surface	8 3/4"	7"	548'	New		LS	84'		Υ
Coal	_								
Intermediate 1									
Intermediate 2	-								
Intermediate 3									
Production	6 1/4"	4 1/2"	2487.55'	New	J	-55			N
Tubing					1			ì	
Packer type and de	epth set						_	•	
Comment Details	Circulated Est. 50	sks to surface on 7° su	riace cement job.						
CEMENT DATA	Class/Type of Cement	Numb of Saci			rield t³/sks)	Volume (ft. ² .)	Cen Top (WOC (hrs)
Conductor						-			
Surface	Reg Neat	130	15.0	6	1.18	153	Surf	ace	8
Coal									
Intermediate 1									_
Intermediate 2								_	
Intermediate 3									
Production	50:50 Pozmi	ix 150	14.5	2	1.27	254	94	14'	8
Tubing									
Drillers TD (ft Deepest forma Plug back pro	tion penetrated	Berea		Loggers T					
Kick off depth	(ft) <u>N/A</u>								
Check all wire	line logs run	a caliper a neutron	■ density ■ resistivity		ed/directi a ray		duction emperature	□son	ic
Well cored E	Yes B No	Convent	ional Side	ewall	W	ere cuttings	collected	■ Yes	□ No
				-					
		IZER PLACEM PLACEM Placed string on r	ENT USED FO	OR EACH C	ASING S	TRING			
									-
WAS WELL O	COMPLETED .	AS SHOT HOL	E □Yes ■	No D	ETAILS				
WAS WELL	COMPLETED	OPEN HOLE?	□Yes ■ N	No DET	AILS _				

API 47- 043 - 03447 Farm name ALLEN, TERRY & DAWNA Well number 212

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7/15/14	2506'	2520'	84	Berea
	-				
				 	
				 	
				 	-
				 	
				<u></u>	
				<u> </u>	
				†	
		<u> </u>	L		<u> </u>

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)
1	7/15/14	5.3	866	958	647		42	15 bbls HCL
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						<u> </u>		

Please insert additional pages as applicable.

API 47- 043	- 03447	Farm	_{name} ALLEN,	TERRY	& DAWNA	Well 1	number_	212	
PRODUCING :	FORMATION(<u>s)</u>	<u>DEPTHS</u>						
Berea				TVD	2506'-2520'	MD			
		-		_ 1 1 1 1		MID			
									
	· · · · · · · · · · · · · · · · · · ·	 -							
Please insert ad	ditional pages a	s applicable.		- 					
GAS TEST	o Build up	Drawdown	□ Open Flow		OIL TEST o	Flow C	Pump		
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi	DURAT	rion o	F TES	Thrs
OPEN FLOW	Gas	Oil	NGL		Water	GAS N	ÆASUI	RED E	BY
	mcf	pd	bpd		bpd		nated		
LITHOLOGY/	ТОР	воттом	ТОР	вотто	м				
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN		ROCK TY	PE AND F	RECOR	D QUANTITYAND
	NAME TVD	TVD	MD	MD	TYPE OF F	LUID (FRE	SHWATE	R, BRI	NE, OIL, GAS, H2S, ETC)
Sand/Shale	0	588	0						
Pittsburgh Coal	588	592							
Sand/Shale	592	1762							
Big Lime	1762	1970							
Big Injun	1970	2074							
Shale	2074	2482							
Coffee Shale	2482	2502							
Berea	2502	2524							
Shale	2524	2675							
TD	2675	ļ							
				_					
			_	-					
Dii	1::-								
Please insert ad									
Drilling Contra	ctor Decker Dril	ling							
Address 11565	State Route 676		City	Vincent		State	ОН	_ Zip	45784
Logging Compa	Weatherford	1 International							
Address 777 No	th River Avenue	- Intornational	City	Weston		State	w	7in	26452
Address 711 No		<u> </u>	City			State		_ Z ıp	
Cementing Con	npany Universa	Services	_						
Address 5252 R	1 1428		City	Allen		State	KY	_ Zip	41601
Stimulating Co	mpany Produc	ers Service Co	rp.						
Address 109 So			City	Zanesville	 9	State	ОН	Zip	43701
	ditional pages a								
Completed by	Roger Heldmar	١,			Telephone	e 304-420	-1107		
Signature	1/1- Kl	elelin	Title 0	perations M	lanager		Date 7/	18/14	
12				.•	A *	CED 4 CT			

43.03447

Prepared for: HG Energy			1	Prepared by: Producers Servi	ice Corp
Dustin Hendershot	PRODUCERS SERVICE CORP.		Chris Bryan 109 S. Graham St. Zanesville, OH 43702 740-454-6253		
CUSTOMER PO#					
Description	Notes	Amount	Units	Unit Cost	Total Cost
ACID PUMP CHARGE 1000-2000 PSI		1	EA		
MILEAGE CHARGE PER UNIT ONE WAY	1 Unit @ 50 Miles	50			
C ACID 15%	T Since, se	500			
ACID DELIVERY		2			
PRO HIB II		0.5	GAL		
PRO CLA FIRM LP			GAL		
PRO NE-1		0.5	GAL		
PRO PEN		0.5	GAL		
DATA VAN		1	STAGE		
	- 14				
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Customer Approval:					