

WR-35 Rev. 8/23/13

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

API 47 043 03455 County LINCO	LN	District DUVAL	
	FFITH, AUSTIN	_ Field/Pool Name GR	RIFFITHSVILLE
Farm name ALLEN, TERRY & DAWNA		Well Number 107	
Operator (as registered with the OOG) H.G. ENERGY LI	LC		
Address 5260 DuPONT ROAD City PA	ARKERSBURG	State WV	Zip <u>26101</u>
As Drilled location NAD 83/UTM Attach an as-drill Top hole Northing 4.231,549 M Landing Point of Curve Northing Bottom Hole Northing	E	and deviation survey asting 416,000 M asting	
Elevation (ft) 855' GL Type of Well	■New □ Existing	Type of Report	□Interim B Final
Permit Type Deviated Horizontal Horizontal	ontal 6A 🚦 Vertical	Depth Type	□ Deep ■ Shallow
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Red	drilling 🗆 Rework	□ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □ Oil ■ Se	econdary Recovery	Solution Mining	age 🗆 Other
Type of Completion Single Multiple Fluids Production Fluids Fluids Production Fluids Fluids Fluids Production Fluids	/ater Intermediat		Other Fresh Water D Brine
Mud Type(s) and Additive(s) N/A			
Date permit issued5/31/2013 Date drilling com	nmenced 6/28/26	ECEIVE De drilling co	eased7/1/14
Date completion activities began 7/11/14		affiliel and Gas	
Verbal plugging (Y/N) N Date permission grant	ed	11_2 Granted by	
Please note: Operator is required to submit a plugging appli	ication within Mays o		
Freshwater depth(s) ftN/A	Open mine(s) (Y/N) depths	N
Salt water depth(s) ft 1040', 1460'	Void(s) encountere	d (Y/N) depths	<u>N</u>
Coal depth(s) ft	Cavern(s) encounte	red (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	Wel:	l number <u>107</u>	7	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		nent circulate (Y/N) ide details below*
Conductor	12 1/4"	11 5/8"	30'	Used		LS		I	Sand In
Surface	8 3/4"	7"	548'	New	 	LS	84'		Y
Coal			0.0					†	<u> </u>
Intermediate I					 			 	
Intermediate 2					 			 	
Intermediate 3	_ 							+	
Production	6 1/4"	4.400	2497 55'	New		J-55		+	N
Tubing	6 1/4	4 1/2"	2487.55'	IVEW	 `	J-55		+	
Packer type and de	nth set				l				
Comment Details	Circulated Est. 50 s	iks to surface on 7° su	face cement job.						
CEMENT DATA	Class/Type of Cement	Number of Sack		,	Yield t ³/sks)	Volume (<u>ft ²</u>)	Ceme Top (N		WOC (hrs)
Conductor									
Surface	Reg Neat	130	15.6	3	1.18	153	Surfa	ace	8
Coai								_	
Intermediate I	<u> </u>								
Intermediate 2									-
Intermediate 3									
Production	50:50 Pozmi:	x 150	14.2	2	1.27	254	890	0,	8
Tubing									
Drillers TD (ft)	2513'			Loggers T	D (ft) 25	16'			
Deepest format		Berea		Plug back					
Plug back prod	-	·							
Kick off depth	(ft) N/A								
Check all wire	ine logs run	a caliper a neutron	■ density ■ resistivity		ted/directi a ray		nduction temperature	Oson	ic
Well cored	Yes 🖪 No	Conventi	onal Sides	wall	W	ere cutting	s collected •	■ Yes	□ No
		ZER PLACEM	ENT USED FO	R EACH C	ASING S	TRING _	·		
WAS WELL C	OMPLETED A	AS SHOT HOLI	E □Yes ■	No D	ETAILS				
WAS WELL C	COMPLETED (OPEN HOLE?	□ Yes 🗂 N	lo DET	AILS _				
WERE TRACI	ERS USED 🗆	Yes B No	TYPE OF T	RACER(S)	USED				

API 47- 043 - 03455 Farm name ALLEN, TERRY & DAWNA Well number 107

PERFORATION RECORD

Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
		2350'	42	Berea
		_		
	-			
		· ·		
		_		
-				-
		 		
	Perforation date 7/15/14	Perforation date MD ft.	Perforation date MD ft. MD ft.	Perforation date MD ft. Perforations

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	1078	558	830		42	15 bbls HCL
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Please insert additional pages as applicable.

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API 47- 043	_ 03455	Farm	name_A	LLEN,	TERRY	& DA	WNA	Well п	umber	107	
PRODUCING I	FORMATION	<u>(S)</u>	DEPTI	<u>4S</u>							
Berea			2340'-2	356'	TVD	234	0'-2356'	MD			
		·									
											
Please insert ad	ditional pages	as applicable.									
GAS TEST	🗆 Build up	□ Drawdown	□ Ope	n Flow		OIL	TEST 🗆	Flow 🗆	Pump		
SHUT-IN PRE	SSURE Su	rface	psi	Botto	m Hole		psi	DURAT	O NOI	F TEST	hrs
OPEN FLOW	Gas	Oil	-	NGL		Wa	ter	GASM	(FASI I	RED BY	7
Of LIVE LOW		cfpd			bpd		bpd	□ Estin	nated	o Orifi	ce 🗆 Pilot
			_		-						
LITHOLOGY/	TOP	воттом	Т	OP	вотто						
FORMATION	DEPTH IN FT			H IN FT							QUANTITYAND
	NAME TVD	TVD	<u> </u>	MD	MD	<u> </u>	TYPE OF F	LUID (FRE	SHWAT	ER, BRIN	E, OIL, GAS, H₂S, ETC
Sand/Shale	0	444		0		-					
Pittsburgh Coal	444	454	- 							-	
Sand/Shale	454	1618	+-			-					
Big Lime	1618	1830		-	_						
Big Injun	1830	1918	-			-					
Shale	1918	2320									
Coffee Shale	2320	2340									
Berea	2340	2356									
Shale	2356	2513									
TD	2513										
			 								
			-								
Please insert ad	ditional pages	s as applicable.									
Drilling Contra	ctor Decker D	vrilling			16			٥	OH	a : 4	15794
Address 11565	State Route 6/6	<u> </u>		_ City	Vincent			State	ОН	Zip <u>_</u>	13704
Logging Comp	any Weatherfo	ord International									
Address 777 No	orth River Avenue	θ		City	Weston			State	w	Zip 2	26452
				0,							
Cementing Cor	npany Univers	sal Services				_					
Address 5252 R	tt 1428			_ City	Allen			State	KY	Zip <u>_</u>	1 1601
		usom Condes Or	200								
Stimulating Co		ucers Service Co	υħ.	<u> </u>	Zanesvill	_		State	ОН	Zip <u>_</u>	13701
Address 109 Sc				_ City	- Carres Am			State		Zip]	
Please insert ad	iditional page:	s as applicable.									
Completed by	Roger Heldm	ap ,					Telephone	304-420	-1107		
Signature/	12-1	bedr		Title O	perations N	/lanage	r	·	Date 7	/18/14	
-6	1			_							<u> </u>
Submittal of H	ydraulic Fract	uring Chemical	Disclos	ure Info	rmation	At	tach copy o	of FRACI	OCUS	Registr	y

43.03455

			740-454-6253	
Notes	Amount	Units	Unit Cost	Total Cost
it @ 50 Miles				
		GAL		
	1	STAGE		
		-		
			-	
		V .		
	715	5		
	Notes it @ 50 Miles	1	1 EA	1 EA 50 MI 500 GAL 2 HR 0.5 GAL 0.5 GAL 0.5 GAL 0.5 GAL