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

pm

API 47_ 043 _ 03470 County LIN	COLN	District DUVAL	
Quad GRIFFITHSVILLE 7.5' Pad Name N		Field/Pool Name G	RIFFITHSVILLE
Farm name HG ENERGY LLC		Well Number 126	
Operator (as registered with the OOG) H.G. ENERGY	LLC		
Address 5260 DuPONT ROAD City	PARKERSBURG	State WV	Zip 26101
Top hole Northing 4.231,760		Easting 415,934 M	
Landing Point of Curve Northing Bottom Hole Northing		astingasting	
	ell ■New □ Existing	00-13-112-112-112-112-112-112-112-112-112-	□Interim AFinal □ Deep A Shallow
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Re	drilling Rework	□ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □ Oil	Secondary Recovery	Solution Mining	orage Other
Type of Completion Single Multiple Fluids P Drilled with Cable Rotary Drilling Media Surface hole Air Mud Fresl Production hole Air Mud Fresh Water Mud Type(s) and Additive(s) N/A	n Water Intermedia		□ Other ■ Fresh Water □ Brine
Date permit issued 6/13/2013 Date drilling	commenced_ 6/3/20	14 Date drilling of	ceased6/7/14
Date completion activities began 6/24/14	Date completion a	ectivities ceased	6/27/14
Verbal plugging (Y/N) N Date permission gr			
- San			
Please note: Operator is required to submit a plugging a	oplication within 5 days o	of verbal permission to p	lug
Freshwater depth(s) ft N/A	Open mine(s) (Y/N		CEIVED
Salt water depth(s) ft 1180', 1450'	Void(s) encountered	d (Y/N) depths ce of	Oil and Gas
Coal depth(s) ft 600'-610'	Cavern(s) encounte	ered (Y/N) depths	N C POLIT
Is coal being mined in area (Y/N) N		301	2 2 5014

WV Departr Reinvedby: Environmental Protection WR-35 Rev. 8/23/13

API 47- 043	_ 03470	Farm n	ame HG ENE	RGY LLC		Wel	II number_12	26	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)	Did cer	ment circulate (Y/N) ide details below*
Conductor	12 1/4"	11 5/8"	30,	Used	T	LS	D T P III (U)		Sand In
Surface	8 3/4"	7"	675'	New		LS	84'		Y
Coal		_						_	-
Intermediate 1							-		
Intermediate 2			-						
Intermediate 3									
Production	6 1/4"	4 1/2"	2610.25	New		J-55			N
Tubing									
Packer type and de	epth set								
Comment Details	Circulated Est. 15	sks to surface on 7° sur	face cement job.						
CEMENT DATA	Class/Type of Cement	Numbe of Sack		y '	Yield t ³/sks)_	Volume	Сеп Тор (WOC (hrs)
Conductor									
Surface	Reg Neat	155	15.6		1.18	183	Surf	face	8
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	50:50 Pozmi	x 150	14.2		1.27	254	1130'		8
Tubing									
Drillers TD (ft Deepest forma Plug back pro- Kick off depth	tion penetrated cedure N/A	Berea		Loggers T Plug back					
Check all wire	· ·	■ caliper ■ neutron	density resistivity		ed/direct a ray		induction temperature	□soni	ic
Well cored	Yes 🖪 No	Conventi	onal Sidev	wall	W	ere cutting	s collected	■ Yes	□ No
			ENT USED FO	R EACH C	ASING S	TRING _			
		Sizer placed mid string on 7°							
WAS WELL O	COMPLETED A	AS SHOT HOLE	Yes 8	No DI	ETAILS				
WAS WELL O	COMPLETED (OPEN HOLE?	□ Yes 🗂 N	o DET	AILS _				
WERE TRAC	ERS USED 🗆	Yes B No	TYPE OF T	RACER(S)	USED _		-		

API 47- 043 - 03470 Farm name HG ENERGY LLC

____Well number_126

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
_1	6/27/14	2504'	2512'	48	Berea
					_
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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	6/27/14	4.5	1133	1658	813		42	15 bbls HCL
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Please insert additional pages as applicable.

WR-35 Rev. 8/23/13

API 47- 043	- 03470	Farm	name HG ENE	RGY LL	<u>.c</u>		Well r	number	126		
PRODUCING :	FORMATION(<u>s)</u> _	<u>DEPTHS</u>								
Berea			2504'-2512'	TVD	250	4'-2512'	MD				
		 -		_ 1 1 1 2			WID				
				_							
	-				_						
Please insert ad	ditional pages a	s applicable.				-					
GAS TEST	🗅 Build up 🗀	Drawdown	□ Open Flow		OIL	TEST of	Flow =	Pump			
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole		psi	DURAT	TION O	F TES	T hrs	
OPEN FLOW		Oil					GAS M				
OI LIVI LOW			opd								
			\								
LITHOLOGY/	TOP	воттом	TOP	BOTTOM							
FORMATION	DEPTH IN FT									D QUANTITY AND	Paro)
Sand/Shale	NAME TVD 0	TVD 600	MD 0	MD	$\overline{}$	TYPE OF FL	JUID (FRE	SHWALI	er, bri	NE, OIL, GAS, H₂S,	EIC)
Pittsburgh Coal	600	610	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		\dashv	<u></u>					
Sand/Shale	610	1767									
Big Lime	_ 1767	1972					_				
Big Injun	1972	2080									
Shale	2080	2480			\dashv						
Coffee Shale	2480	2500			 -∤						
Berea	2500	2524									
Shale	2524	2630			\dashv						
TD	2630				\dashv						
					-+		_			-	
	<u> </u>				\dashv						
					\neg						
Please insert ad	ditional pages a	s applicable.	<u> </u>				-				
Drilling Contra	ctor Decker Drill	ling									
Address 11565	State Route 676		City	Vincent			State	ОН	Zip	45784	
									- ·		
Logging Comp	any Weatherford	International		Mastes			S	wv	7.	26452	
Address 777 No	nn River Avenue		City	Weston		-	State		_ Zip	20432	
Cementing Con	npany Universal	Services									
Address 5252 R	t 1428		City	Allen			State	KY	Zip	41601	
Simulation Co.	Produc	ers Service Co	m								
Stimulating Co	uth Graham Street		City	Zanesville	<u> </u>		State	ОН	7in	43701	
	ditional pages a										
Completed by	Roger Heldman	1 / / /	·		_	Telephone	304-420	-1107	14014 1		_
Signature	yen	ppra-	Title	perations M	anger			Date 5	18/14		
Submittal of Hy	ydraulic Fractur	ing Chemical I	Disclosure Infor	rmation	Att	ach copy o	f FRACI	OCUS	Regist	try	

Prepared for:				Prepared by:	
				Producers Serv	ice Corn
HG Energy					ice Corp
Dustin Hendershot				Chris Bryan	
304 771 5432	PRODUCERS			109 S. Graham	St.
	SERVICE CORP.			Zanesville, OH	43702
	Calleton Com.			740-454-6253	
INVOICE #: 16737					
WELL NAME: M A Bays #1	26				
STATE & COUNTY: Lincoln,WV					
TOWNSHIP/FIELD: Griffthsville					
DATE of SERVICE: 6/27/2014					
CUSTOMER PO#					
Description	Notes	Amount	Units	Unit Cost	Total Cos
ACID PUMP CHARGE 1000-2000 I	PSI	1	EA	\$	
MILEAGE CHARGE PER UNIT ON	E WAY 1 Unit @ 50 Miles	50	MI	\$	
IC ACID 15%		500	GAL	\$	
ACID DELIVERY		0.5	HR	\$	
PRO HIB II PRO CLA FIRM LP		0.5		\$	
PRO NE-1		0.5		\$	
PRO PEN		0.5	GAL	\$	
DATA VAN		1	STAGE	\$	
				-	
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				A CONTRACTOR	
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				12 mg	
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