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

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Department of Environment	of West Virginia ntal Protection - Office of Oil and Gas r's Report of Well Work	Page 1 of 4 More and the second of the seco
API 47 - 043 - 03462 County LINCOL	.NDUVAL	W. W. PL
API 47 - 043 - 03462 County LINCOL Quad GRIFFITHSVILLE 7.5' Pad Name EPHF	RAIM GRIFFITH Field/Pool Name G	RIFFITHSVILLE
Farm name BENDER, JASON, ET UX	Well Number 115	
Farm name BENDEN, JASON, ET OX		
Operator (as registered with the OOG) H.G. ENERGY LL	DKEDSBUDG ~ W//	<u>-: 26101</u>
Address 5260 DuPONT ROAD City PAI	RKERSBURG State WV	Zip 20101
Elevation (ft) 972' GL Type of Well	■New □ Existing Type of Report	□Interim ■Final
Permit Type Deviated Horizontal Horizon	ntal 6A	□ Deep ■ Shallow
Type of Operation Convert Deepen Drill	Plug Back	□ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □ Oil ■ Sec	condary Recovery Solution Mining St	orage Other
	iced □ Brine □Gas □ NGL ■ Oil	
Drilling Media Surface hole ■ Air □ Mud ■ Fresh Water ■ Brine Mud Type(s) and Additive(s) N/A		■ Fresh Water □ Brine
Date permit issued6/17/2013 Date drilling comm	A A A A A A A A A A A A A A A A A A A	FOUND DECEMBER 1960
Date completion activities began9/4/14		
Verbal plugging (Y/N)N Date permission grante	d Granted by	
Please note: Operator is required to submit a plugging applic	ration within 5 days of verbal permission to p	olug
Freshwater depth(s) ft N Salt water depth(s) ft 1500'	Open mine(s) (Y/N) depths	N
Salt water depth(s) ft	Void(s) encountered (Y/N) depths	NI.
Coal depth(s) ft 540'-545'	Cavern(s) encountered (Y/N) depths	A.I.
Le coal being mined in grea (V/N)	earth(b) oncountered (1711) depuis	
Is coal being mined in area (Y/N)N		Reviewed by:

API 47- 043	03462	Farm na	me_BENDER	R, JASON	ET UX	Well	number 11	5		
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		Did cement circulate (Y/N) * Provide details below*	
Conductor	12 1/4"	11 5/8"	30'	Used		LS		Sand In		
Surface	8 3/4"	7"	590'	New		LS	84'			
Coal										
Intermediate 1			1188-							
Intermediate 2										
Intermediate 3			3000							
Production	6 1/4"	4 1/2"	2572.75'	New		J-55			Υ	
Tubing										
Packer type and d	epth set									
Comment Details	Circulated Est. 50	sks to surface on 7" sur	face cement job. Circ	culated Est. 15 sk	s to surface o	on 4 1/2" cement j	iob.			
CEMENT DATA	Class/Type of Cement	Numbe of Sack		2	Yield ft ³ /sks)	Volume (ft ³)			WOC (hrs)	
Conductor										
Surface	Reg Neat	150	15.6	6	1.18	177	Surf	ace	8	
Coal										
Intermediate 1										
Intermediate 2										
Intermediate 3										
Production	50:50 Pozmi	x 90/125	13.2/1	4.2 1.6	64/1.27 148/15		25	4'	8	
Tubing										
Drillers TD (ft Deepest forma Plug back pro Kick off depth	ation penetrated ocedure N/A	Berea		Loggers 7			.9			
Check all wire	eline logs run	acaliper neutron	density resistivity		ted/direct		nduction emperature	□soni	с	
Well cored	Yes No	Convention	onal Side	wall	W	Vere cuttings	collected 1	Yes D	o No	
6 Centralizers every 84 fr	rom bottom on 4 1/2", Centra									
		AS SHOT HOLE	-							
WAS WELL	COMPLETED (OPEN HOLE?	□ Yes 📱 N	lo DET	`AILS _			(1)		
WERE TRAC	ERS USED	Yes 🖪 No	TYPE OF T	RACER(S)	USED _					

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Farm name_BENDER, JASON, ET UX

_Well number_115

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	9/8/14	2452'	2462'	60	Berea
					
				 	

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	9/8/14	4.3	815	1264	738		40	12 bbls HCL
					78 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
						i		
		1401 - 3						

Please insert additional pages as applicable.

Title Operations Manger

pa Meden

Completed by Roger Heldman

Signature

Date 10/15/14

Telephone 304-420-1107

PE fle

Prepared for:
HG Energy
Dustin Hendershot



Prepared by:

Producers Service Corp

Chris Bryan

109 S. Graham St.

304 481 7342	PRODUCERS			10) D. Gramma	~
	SERVICE CORP.			Zanesville, OH	43702
	sages and a sea of an une of			740-454-6253	
INVOICE #: 16783					
WELL NAME: E Griffith #115					
STATE & COUNTY: Lincoln,WV					
TOWNSHIP/FIELD: Griffthsville					
DATE of SERVICE: 9/8/2014					
CUSTOMER PO#			<u> </u>		
Description	Notes	Amount	Units	Unit Cost	Total Cost
ACID PUMP CHARGE 1000-2000 PSI		1	EA	\$ 1 200 00	e A AAA A-
MILEAGE CHARGE PER UNIT ONE WAY	1 Unit @ 50 Miles	50	MI	\$	
IC ACID 15%		500		\$	
ACID DELIVERY		0.5		\$	
PRO HIB II		0.5		\$	
PRO CLA FIRM LP		0.5		\$	
PRO NE-1		1		\$	
PRO PEN			STAGE		
DATA VAN					
			-		
			-	 	
				 	
				 	
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				TOTA	
				n n	
Customer Approval:					
- determent the same					

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