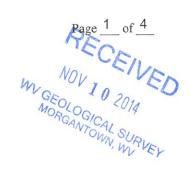
WR-35 Rev. 8/23/13

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



API 47 - 043	_ 03463	County LINCOL	.N	District DUVAL	
		Pad Name EPHF	RAIM GRIFFITH	Field/Pool Name	GRIFFITHSVILLE
Farm name BENDE	R, JASON, ET U	JX		Well Number 116	
Operator (as register	ed with the OOG)	H.G. ENERGY LL	С		
Address 5260 DuF	ONT ROAD	City PAR	RKERSBURG	State WV	_{Zip} <u>26101</u>
Landing Po	int of Curve N	Attach an as-drille forthing 4,230,882 M orthing orthing		Easting	
Elevation (ft) 890	GL	Type of Well	■New □ Existing	g Type of Repor	t □Interim Final
Permit Type 🗆 I	Deviated Hor	rizontal Horizon	tal 6A 📱 Vertic	cal Depth Type	□ Deep ■ Shallow
Type of Operation	□ Convert □ De	epen 🛮 Drill 🗆	Plug Back 🗆 I	Redrilling Rework	□ Stimulate
Well Type □ Brine	Disposal □ CBM	□ Gas □ Oil ■ Sec	condary Recovery	□ Solution Mining □ S	torage Other
Type of Completion Drilled with □ Cab		iple Fluids Produ	ced □ Brine □	Gas □ NGL ª Oil	□ Other
Drilling Media Sur	rface hole	□ Mud ■Fresh Wa	ter Intermed	liate hole ■ Air □ Mu	d ■ Fresh Water □ Brine
9		Fresh Water Brine			
Mud Type(s) and A	dditive(s)			·	
		9 ja - Up-			
Date permit issued	6/13/2013	Date drilling com	nenced8/29	/14 Date drilling	g ceased9/5/14
Date completion acti	ivities began	9/18/14	_ Date completion	n activities ceased	10/1/14
Verbal plugging (Y/	N) N D	ate permission grante	d	Granted by	
Please note: Operate	or is required to sub	omit a plugging applic	ation within 5 days	s of verbal permission to	plug
Freshwater depth(s)	11	320'	Open mine(s) (Y	/N) depths	N
Salt water depth(s) f	·	1200'	Void(s) encounte	ered (Y/N) depths	
Coal depth(s) ft	452'-		Cavern(s) encour	ntered (Y/N) depths	N
Is coal being mined	in area (Y/N)	N			Reviewed by:

WR-35								Page $\frac{2}{}$ of $\frac{4}{}$
Rev. 8/23/13								
API 47- 043	- 03463	Farm na	me_BENDEF	R, JASON,	ET UX	Well n	number_116	<u>k</u>
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		asket epth(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"	548'	New	LS	3	84'	N
Coal								
Intermediate 1								
Intermediate 2								
Intermediate 3								
Production	6 1/4"	4 1/2"	2498.85'	New	J-5	55		N
Tubing								
Packer type and de	epth set			<u></u>				
Comment Details	Grouted to surface	with 25 additional sks o	n 7" surface cement	job.				
CEMENT DATA	Class/Type of Cement	Number of Sacks		A.C. 1	Yield t ³ /sks)	Volume (ft ²)	Cemen Top (M)	
Conductor								
Surface	Reg Neat	130	15.6	6	1.18	153	Surfac	e 8
Coal								
Intermediate 1								
Intermediate 2								
Intermediate 3								
Production	50:50 Pozmi	x 85/125	13.2/1	4.2 1.6	4/1.27	139/159	140'	8
Tubing								
Drillers TD (ft Deepest forma Plug back pro	tion penetrated	Berea		Loggers T Plug back	D (ft) 2552' to (ft) N/A		V-11	
Kick off depth	(ft) N/A							
Check all wire	line logs run	acaliper neutron	■ density ■ resistivity		ed/direction a ray		uction nperature	□sonic
Well cored	Yes 🖪 No	Convention	nal Side	wall	Wer	e cuttings co	ollected	Yes □ No
	HE CENTRAL!		ENT USED FO	R EACH CA	ASING STE	RING		
						21.7		
					4-02-95			
WAS WELL O	COMPLETED A	AS SHOT HOLE	□ Yes 🚪	No DI	ETAILS _			
WAS WELL O	COMPLETED (OPEN HOLE?	□ Yes ■ N	o DET.	AILS			

WERE TRACERS USED

Yes No TYPE OF TRACER(S) USED _____

API 47- 043 _ 03463

Farm name_BENDER, JASON, ET UX

_Well number_116

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	9/19/14	2372'	2384'	72	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	10/1/14	4.4	862	1198	633		39	12 bbls HCL

Please insert additional pages as applicable.

API 47- 043	_ 03463	Farm	name BENDE	R, JASON	, ET UX	Well	numbei	. 116	
PRODUCING	FORMATION(<u>S)</u> .	DEPTHS						
Berea			2372'- 2384'	TVD		MD			
20,00			2012 2001	_ 1 \ \ D _		MD			
Please insert ad	ditional pages a	s applicable.							
GAS TEST	□ Build up □	Drawdown	□ Open Flow	(DIL TEST	Flow [□ Pump		
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	om Hole	psi	DURA	TION C	OF TEST	_ hrs
OPEN FLOW	Gas	Oil	NGL	,	Water	GAS N	MEASU	RED BY	
	mcf	pd	bpd	_ bpd	bpd bpd				ilot
LITHOLOGY/	TOP	BOTTOM	TOP	BOTTOM					
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN F	Γ DESCRIBE	ROCK TY	PE AND	RECORD QUANTITY	YAND
	NAME TVD	TVD	MD	MD	TYPE OF FI	LUID (FRE	SHWAT	ER, BRINE, OIL, GAS	3, H ₂ S, ETC)
Sand/Shale	0	452	0						
Pittsburgh Coal	452	458							
Sand/Shale	458	1645				*****			
Big Lime	1645	1848							
Big Injun	1848	1952							
Shale	1952	2349	-						
Coffee Shale	2349	2369	-						
Berea	2369	2389							
Shale TD	2389 2549	2549							
ID	2549								
								(i, - (i) (i) - (i)	
Please insert ad	ditional pages a	s applicable.							
D ::::	Decker Drill	ina							
Address 11565	ctor Decker Drill	1119	City	Vincent		State	ОН	Zip 45784	
Address 11000 k	State Route 070		City	VIIIOCITE		_ State		Zip _40704	
Logging Compa	any Weatherford	International							
Address 777 No	rth River Avenue		City	Weston		State	WV	Zip 26452	
	11-2	0							
Cementing Con	npany Universal	Services		Allem			KV	-: 41601	
Address 5252 R	1 1428		City	Allen		_ State	KY	Zip <u>41601</u>	
Stimulating Co.	mpany Produce	ers Service Cor	rp.						
Address 109 So	uth Graham Street	City	Zanesville		State	ОН	Zip 43701		
AND THE RESERVE OF THE PARTY OF	ditional pages a	s applicable.	,						
Completed by	Roger Heldman				Telephone	304-420	-1107		
Signature /	Vi Nel	· On	Title O	perations Man	ger		Date 10	0/15/14	
	Type (- C	Cl			1	CED LOT			

Prepared for:

HG Energy

Dustin Hendershot

304 771 5432



Prepared by:

Producers Service Corp

Chris Bryan

109 S. Graham St.

Zanesville, OH 43702

Total Cost

740-454-6253

INVOICE #: 16788

WELL NAME:

E Griffith #116

STATE & COUNTY: Lincoln, WV

TOWNSHIP/FIELD: Griffthsville

DATE of SERVICE: 9/19/2014

CUSTOMER PO#

Customer Approval: _

COSTONIERTO				
Description	Notes	Amount	Units	Unit Cost
ACID PUMP CHARGE 1000-2000 PSI		1	EA	\$
MILEAGE CHARGE PER UNIT ONE WAY	1 Unit @ 50 Miles	50	MI	\$
IC ACID 15%		500	GAL	\$
ACID DELIVERY		2	HR	\$
PRO HIB II		0.5	GAL	\$
PRO CLA FIRM LP		0.5	GAL	\$
PRO NE-1		0.5	GAL	\$
PRO PEN		1	GAL	\$
DATA VAN		1	STAGE	\$
·				
,				
V				
?				
	·			
			7.7	TO