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

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Chica of Oil and Gas

DEC 1 0 2018

V/V Danartment of Environmental Protection

Quad GRIFFITHSVILLE 7.5'	BELL E D	G	DIEEITHSVILLE
DENDED MCON 9	Pad Name BELL, E.P.	Field/Pool Name G	
Farm name BENDER, JASON &		Well Number 507	
Operator (as registered with the OOG Address 5260 DuPONT ROAD	City PARKERSBUR	RG State WV	Zip 26101
Type of Operation Convert	Northing 4,230,894 M Northing 4,230,999 M	Easting 416,841 M Easting 417,059 M Easting Type of Report Vertical Depth Type Redrilling Rework	□Interim ■Final □ Deep ■ Shallow □ Stimulate
Drilled with Cable Rotary Drilling Media Surface hole Production hole Air Mud Type(s) and Additive(s) N/A	sir □ Mud ■Fresh Water Inte □ Fresh Water ■ Brine	ermediate hole - 🛢 Air - 🗆 Mud	■ Fresh Water □ Brine
9/5/18	Data dellina asymmonyad	10/11/18 Data deilling	20052d 10/18/18
	Date drining commenced	10/11/18 Date drilling	
Date permit issued 9/5/18 Date completion activities began Verbal plugging (Y/N) N	Date drining commenced	10/11/18 Date drilling pletion activities ceased Granted by	ceased 10/18/18 11/6/18
Date completion activities began Verbal plugging (Y/N) N	10/26/18 Date comp	oletion activities ceased Granted by	11/6/18
Date completion activities began Verbal plugging (Y/N)N Please note: Operator is required to	10/26/18 Date comp Date permission granted submit a plugging application within 5	oletion activities ceased Granted by	11/6/18
Date completion activities began	10/26/18 Date comp Date permission granted	oletion activities ceased Granted by 5 days of verbal permission to p	11/6/18
Date completion activities began	10/26/18 Date comp Date permission granted submit a plugging application within a plugging app	oletion activities ceased Granted by 5 days of verbal permission to p	11/6/18 olug None

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API	47- 043 -	03588	Farm name_BENDER, JASON & ASHLEY	_Well number_507

CASING STRINGS	Hole S:	Casing	Dend	New or	Grade	Basket	Did cement circulate (Y/N)
	Size	Size	Depth	Used	wt/ft	Depth(s)	* Provide details below*
Conductor	15"	13 3/8"	13"	New	LS		Sand In
Surface	8 3/4"	7"	549.6'	New	LS	64'	Y
Coal							
Intermediate 1							
Intermediate 2			ì				
Intermediate 3							
Production	6 1/4"	4 1/2"	2730.55'	New	LS		Y
Tubing				1			
Packer type and de	pth set		1	<u> </u>	<u> </u>		<u> </u>

Comment Details Circulated Est. 25 sks to surface on 7" surface cement job. Circulated Est. 20 sks to surface on 4 1/2" cement job.

CEMENT DATA Conductor	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume <u>(ft ³)</u>	Cement Top (MD)	WOC (hrs)
Surface	Reg Neat	140	15.6	1.18	165	Surface	8
Coal							
Intermediate I			· · ·				
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix	120/125	13.2/14.2	1.64/1.27	197/186	172'	8
Tubing							

Drillers TD (ft) 2787			Loggers TD (ft) 2712		
Deepest formation penetrated B			Plug back to (ft) N/A	RECEIVED	
					Office of Oil and Gas
					DEC 1 0-2018
Kick off depth (ft) 650'					WV Department of Environmental Protection
					Environmental Protection
Check all wireline logs run	acaliper ==	density	deviated/directional	induction	_
	ncutron	■ resistivity	🖪 gamma ray	■ temperature	□sonic
DESCRIBE THE CENTRALIZ 12 Centralizers every 69 from bottom on 4 1/2", Centralize			R EACH CASING STRIN		
WAS WELL COMPLETED AS	SHOT HOLE	□ Yes ■	No DETAILS		
WAS WELL COMPLETED OF	PEN HOLE?	□ Yes ■ No	DETAILS		
WERE TRACERS USED O	es 🖁 No	TYPE OF TR	ACER(S) USED		

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API	47- 043 -	03588	Farm name BENDER, JASON & ASHLEY	_Well number_507	RECEIVED Office of Oil and G
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PERFORATION RECORD

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Stage No	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s) WV Der	partment of Intal Protec
1	10/29/18	2572'	2582'	40	Berea	
						1
						1
				1		
-						1
					<u> </u>	1
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						1
	-					1
 				-		1
						
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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	11/6/18	4	729	1633	783	1,000	141	
						 		
<u> </u>				-				
	<u> </u>					 		
						 		_
						<u> </u>		
						<u></u>		

Please insert additional pages as applicable.

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API 47- 043	_ 03588	Farm	_{name} BENDE	R, JASON 8	ASHLEY	Well n	umber_	507		
PRODUCING	FORMATION(<u>s)</u>	<u>DEPTHS</u>						SEC Office of	CEIVED Oil and Gas
Berea			2358'- 2379'	TVD 25	68'- 2592'	MD			DEC 1	1 0 2018
						_ wb _ _ _			WV Der Environmen	partment of ntal Protection
Please insert ad	ditional pages a	s applicable.								
GAS TEST	🗆 Build up 🗆	Drawdown	□ Open Flow	OI	LTEST DF	Flow 🗆	Pump			
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi	DURAT	O MOI	F TEST	hrs	
OPEN FLOW	Gas mcf	Oil pdl	NGL opd	bpd	ater bpd			RED BY	□ Pilot	
LITHOLOGY/	TOP	воттом	ТОР	воттом						
FORMATION	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD				RECORD QUA ER, BRINE, OI	NTITYAND L, GAS, H₂S, ET	TC)
Sand/Shale	0	440	0	440						
Pittsburgh Coal	440	445	440	445						
Sand/Shale	445	1644	445	1710						
Big Lime	1644	1854	1710	1950						
Big Injun	1854	1946	1950	2069						
Shale	1946	2338	2069	2545						
Coffee Shale	2338	2358	2610	2568		_				
Berea	2358	2379	2568	2592	Drille	ed direction	onal N 6	4.2° E a dista	ince of 794'	
Shale	2379	2548	2592	2787						
TD	2548	-	2787							
·-										
Please insert ad	lditional pages a	s applicable.		· · · · · · · · · · · · · · · · · · ·						
Drilling Contra	ctor Noah Hom	Well Drilling								
Address 1070 S	andy Valley Lane	-	City	Vansant		State	VA	Zip 2465	6	
						_				
Logging Comp	any Weatherford	d International				_			^	
Address 13211	Old Hwy 50		City	Flora		_ State	<u> </u>	Zip <u>_6283</u>	,	_
Cementing Cor	npany C&JEn	ergy Services								
Address 580 Ha	wthom Drive		City	Norton		State	VA	Zip <u>2427</u> :	3	
		en Cardon Ca	_							
Stimulating Co		ers Service Co		Zanesville		State	ОН	Zip 4370	1	
	outh Graham Street		City	Tangame		_ State		Zip <u></u>		_
riease insert ad	lditional pages a	ь аррисавіе.								
Completed by	_Roger Heldmar	1			Telephone	304-420	-1107			
Signature	In Del	draw	Title O	perations Manag	ger (Date 1	2/5/18		
Submittal of H	> ydraulic Fractur	ing Chemical I	Disclosure Info	rmation A	ttach copy o	f FRACF	ocus	Registry		

12/28/20 18 DEC 1 0 2018

Prepared by: Prepared for: WV Department of Environmental Protection **Producers Service Corp** Daniel L Graham HG Energy 109 S. Graham St. Zanesville, OH 43702 **Dustin Hendershot** 740-454-6253 Field Ticket #: 20845 EP Bell #507 WELL NAME: COUNTY/STATE: Lincoln/WV TOWNSHIP/FIELD: Griffithsville 11/6/2018 DATE of SERVICE: **CUSTOMER PO#: Total Cost Unit Cost** Units Amount Notes Description EA 1 **BLENDER CHARGE 0-10 BPM** 1 EA FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS 400 MI 2 Units @ 200miles MILEAGE CHARGE PER UNIT ONE WAY 250 GAL IC ACID 15% 4 HR ACID DELIVERY 0.5 GAL PRO HIB II 50 LB IRONTROL 6 GAL PRO CLA FIRM LP 6 GAL PRO NE-21 1 LB **BIO CLEAR 750** 50 LB BUFFERI 150 LB PRO GEL 4 1 STAGE DATA VAN

Customer Approval: