WR-35 Rev. 8/23/13

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

FEB 25 2015

WV Department of Environmental Protection

API <u>47</u> - 087 _ 04746 County	ROANE	District SMITHFIEL	LD
	e KINKEAD, S.B.	Field/Pool Name Cl	
Farm name MCCLAIN, JOHN R. & KEATON		Well Number 200	
Operator (as registered with the OOG) H.G. ENER	RGY LLC	-	
Address 5260 DuPONT ROAD	PARKERSBURG	State WV	Zip 26101
As Drilled location NAD 83/UTM Attach an  Top hole Northing 4,285	as-drilled plat, profile view, a	nd deviation survey asting 475,130 M	
Landing Point of Curve Northing	Ea	sting	
Bottom Hole Northing 4,285	,385 M Ea	sting 475,009 M	
Elevation (ft) 1,114' GL Type of	of Well New Existing	Type of Report	□Interim ■Final
Permit Type 📱 Deviated 🗆 Horizontal 🗆	Horizontal 6A	Depth Type	□ Deep ■ Shallow
Type of Operation □ Convert □ Deepen ■ Dr	rill □ Plug Back □ Red	rilling   Rework	□ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas ■ O	il 🗆 Secondary Recovery 🗆	Solution Mining   Sto	orage   Other
Type of Completion ■ Single □ Multiple Flui	ds Produced □ Brine □Gas	s □ NGL ■ Oil	□ Other
Drilled with □ Cable ■ Rotary			
Drilling Media Surface hole ■ Air □ Mud ■ F	Fresh Water Intermediate	e hole 📱 Air 🗆 Mud	■ Fresh Water □ Brine
Production hole	<b>B</b> Brine		
Mud Type(s) and Additive(s) N/A			
Date permit issued11/18/14 Date drill	ing commenced 12/16/14	Date drilling of	ceased12/18/14
Date completion activities began 1/8/15		tivities ceased	
Verbal plugging (Y/N) N Date permissio			
Yerom progging (1711)	5		
Please note: Operator is required to submit a pluggir	ng application within 5 days of	verbal permission to p	lug
Freshwater depth(s) ftNone	Open mine(s) (Y/N)	depths	None
Salt water depth(s) ft 1870'		(Y/N) depths	None
Coal depth(s) ftNone		red (Y/N) depths	None
Is coal being mined in area (Y/N)			

Reviewed by: 1.L. 5/19/15/ W.S. 04/06/12/2015

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Page 2 of 4 WR-35 FEB 25 2015 Rev. 8/23/13 API 47-087 Farm name MCCLAIN, JOHN R. & KEATON Well number WV Department of 04746 200 New Environmental Protection **CASING** Hole Casing Did cement circulate (Y/N) **STRINGS** wt/ft Depth(s) Size Size \* Provide details below\* Depth Used Conductor 12 1/4" 11 5/8" 30' Used LS Sand In Surface 8 3/4" 7" 550' New LS 64' Υ Coal Intermediate 1 Intermediate 2 Intermediate 3 Production 6 1/4" 4 1/2" 2363.9' J-55 Υ New Tubing Packer type and depth set Comment Details Circulated Est. 25 sks to surface on 7" surface cement job. Circulated Est. 10 sks to surface on 4 1/2" cement job. CEMENT Class/Type Number Slurry Yield Volume Cement WOC DATA of Cement of Sacks wt (ppg) (ft 3/sks) (ft 2) Top (MD) (hrs) Conductor Surface **Reg Neat** 140 15.6 1.18 165 Surface 8 Coal Intermediate 1 Intermediate 2 Intermediate 3 Production 50:50 Pozmix 80' 8 90/125 13.2/14.2 1.64/1.27 148/186 Tubing Drillers TD (ft) 2390 Loggers TD (ft) 2393' Deepest formation penetrated Big Injun Plug back to (ft) N/A Plug back procedure N/A Kick off depth (ft) 550' Check all wireline logs run **■** caliper ■ density ■ deviated/directional **■** induction ■ neutron resistivity 🖪 gamma ray **∄** temperature □sonic Well cored □ Yes ■ No Conventional Sidewall Were cuttings collected ■ Yes □ No DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING 20 Centralizers every 88 from bottom on 4 1/2°, Centralizer placed mid string on 7° WAS WELL COMPLETED AS SHOT HOLE □ Yes 🖪 No DETAILS WAS WELL COMPLETED OPEN HOLE? □ Yes 🖪 No **DETAILS** WERE TRACERS USED Yes No TYPE OF TRACER(S) USED

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Farm name MCCLAIN, JOHN R. & KEATON Well number 2000 To the company of the compan

#### PERFORATION RECORD

Stage No.	Perforation date_	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	2/4/15	2252'	2258'	24	Big Injun
				-	
				<u> </u>	<u> </u>

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	2/10/15	5	455	1581	414	2,500	140	
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Please insert additional pages as applicable.

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API 47- 007	04746	Farm	name_MCCLA	IIN, JOHN	R. & KEATC	Well i	number_	200	
PRODUCING	FORMATION(	<u>S)</u>	<u>DEPTHS</u>					REC	CEIVED
Big Injun			2182'- 2198'	_TVD	2242'- 2260'	MD	(	Office of	Oil and Gas
-				-/	-	_		FEB	2 5 2015
7					-			WV Der	partment of
Please insert ac	dditional pages a	s applicable.					En	/ironme	ntal Protection
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL TEST	Flow [	Pump		
SHUT-IN PRE	SSURE Surfa	ace	psi Botto	om Hole	psi	DURAT	TION O	F TEST	hrs
OPEN FLOW		Oil 	NGL bpd	_ bpd _	Water bpd	GAS N □ Estin	IEASU.	RED BY  □ Orifice	□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN MD	FT DESCRIBE			RECORD QUA	ANTITYAND L, GAS, H <sub>2</sub> S, ETC)
Sand/Shale	0	660	0	660	THEOTH	COD (FRE	SHWAIL	on, Braine, Or	L, GA3, H23, E1C)
Sand	660	686	660	686					
Shale	686	1004	686	1007					
Sand	1004	1112	1007	1118					
Shale	1112	1716	1118	1750					
Sand	1716	1992	1750	2044					
Little Lime	1992	2018	2044	2070					
Pencil Cave	2018	2026	2070	2080					
Big Lime	2026	2155	2080	2214					
Keener	2155	2182	2214	2242					
Big Injun	2182	2198	2242	2260	D	rilled direc	tional S 5	57° W a distan	nce of 408'
Shale	2198	2324	2260	2390					
TD	2324		2390						
Please insert ad	ditional pages as	applicable.							
Drilling Contra Address 11565	ctor Decker Drilli State Route 676	ng	City	Vincent		State	ОН	Zip_4578	4
Logging Compa Address 777 No	any Weatherford	International	G.	Wester			1007	2645	
Address 111 No	Turriver Avenue		City	Weston		State		_ Zip _2645	2
Cementing Con Address Hall Rd	npany Universal	Services	City	Buckhanno	n	State	wv	Zip_2620	1
		. S T H.				State		_ z.ip	
Stimulating Con	inputity	rs Service Co	***		_		2	665	
	uth Graham Street ditional pages as	applicable.	City	Zanesville		_ State	ОН	_ Zip <u>4370</u>	1
	Roger Heldman				Telephone	304-420-	-1107		
Signature	Den No	Idn	Title O	perations Ma	nager		Date 2/	17/15	
18		100	11110						

Prepared for: H G Energy



Prepared by:
Producers Service Corp
Jason Stanbery
109 S. Graham St.
Zanesville, OH 43702

740-454-6253

		7.10 10.1 12.2	
INVOICE#:	18122		1
WELL NAME:	S B Kinkead #200		
STATE & COUNTY:			•
TOWNSHIP/FIELD:	Clover		
DATE of SERVICE:	2/10/2015		
CUSTOMER PO#	I.		

Description	Notes	Amount	Units	Unit Cost
THE PURPOSE A COOR DOLLMAN CHARGE A UPS		1	EA	
FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1	EA	
BLENDER CHARGE 0-10 BPM	2 Units @ 150 Miles	0	MI	
MILEAGE CHARGE PER UNIT ONE WAY	Z Ollits @ 100 Miles	250	GAL	
IC ACID 15%		0.5	GAL	
PRO HIB II		2	HR	
ACID DELIVERY		15		Office
PRO CLA LOK (KCL SUBSTITUTE)	14	5	GAL	Offic
PRO NE-21		150	LB	
PRO GEL 4		50	LB	
BUFFER I		50	LB	
BUFFER II		15		101
PRO CLA LOK (KCL SUBSTITUTE)		15		W
AP BREAKER		10	-	Envir
BXL-A		10		
BXL-10C		25		+
SAND 20/40 OTTAWA		The state of the s		+
SAND DELIVERY / TON MILES	4.6	100		+
BIO CLEAR 750		1		+
DATA VAN			STAGE	+
1				+
				-
				+
				1
				+
	T U T T T T T T T T T T T T T T T T T T			1
				1
				1

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**Total Cost** 

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