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

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FEB 2.5 2015

API 47 - 087 - 04745	50445			WV Depar	al Protecti
0 1 ()()NEYVILLE 7.5'	County ROANE				-
Quad LOONEYVILLE 7.5'	Pad Name KINKEAD		eld/Pool Name		
Farm name MCCLAIN, JOHN R. &		W	ell Number 1	03	
Operator (as registered with the OOG)	H.G. ENERGY LLC	- DODLING	1101		- 1
Address 5260 DuPONT ROAD	City_PARKE	RSBURG	State WV	Zip 261	01
Landing Point of Curve N	Attach an as-drilled pla Northing 4,285,475 M Jorthing 4,285,549 M	Easting Easting	eviation survey g 475,126 M g 475,173 M	v	
Elevation (ft) 1,114' GL	Type of Well Ne			ort □Interim ■F	inal
Permit Type  Deviated  Ho	rizontal   Horizontal 6	A D Vertical	Depth Type	□ Deep #	Shallow
ype of Operation   Convert   De	eepen ∄ Drill □ Plus	g Back □ Redrillir	ig □ Reworl	k 🗆 Stimulate	
Vell Type □ Brine Disposal □ CBM					
ype of Completion ■ Single □ Mult brilled with □ Cable ■ Rotary brilling Media Surface hole ■ Air	□ Mud ■Fresh Water			□ Other	
roduction hole Air Mud und Mud Type(s) and Additive(s)	riesh water   Dillie				er 🗆 Brine
roduction hole Air Mud und Mud Type(s) and Additive(s) N/A Date permit issued 12/17/14	Date drilling commence			ig coasea	/20/14
roduction hole Air Mud  fud Type(s) and Additive(s)  N/A  Pate permit issued 12/17/14  Pate completion activities began	Date drilling commence	ate completion activit	es ceased	ig coasea	
roduction hole Air Mud Infud Type(s) and Additive(s)  N/A  Pate permit issued 12/17/14  Pate completion activities began	Date drilling commence	ate completion activit		ig coasea	
roduction hole Air Mud  fud Type(s) and Additive(s)  I/A  ate permit issued 12/17/14  ate completion activities began berbal plugging (Y/N) D	Date drilling commence 1/8/15 Date permission granted	ate completion activiti	es ceased Granted by	2/10/15	
roduction hole Air Mud und Mud Type(s) and Additive(s)  MA  ate permit issued 12/17/14  ate completion activities began  erbal plugging (Y/N) N D  ease note: Operator is required to sub	Date drilling commence 1/8/15 Da ate permission granted omit a plugging application	ate completion activition	es ceased Granted by al permission to	2/10/15	
roduction hole Air Mud Ind Type(s) and Additive(s)  I/A  ate permit issued 12/17/14  ate completion activities began erbal plugging (Y/N) N D  ease note: Operator is required to subsession of the subsession of	Date drilling commence 1/8/15 Date permission granted omit a plugging application  None Ope	ate completion activition within 5 days of verben mine(s) (Y/N) dept	es ceased Granted by al permission to	2/10/15 o plug	
reduction hole Air Mud  fud Type(s) and Additive(s)  N/A  Pate permit issued 12/17/14  Pate completion activities began  Ferbal plugging (Y/N) N D  lease note: Operator is required to sub	Date drilling commence 1/8/15 Da ate permission granted omit a plugging application  None Ope	ate completion activition	es ceased Granted by al permission to the N) depths	2/10/15 o plug  None	

05/01/2015

Reviewed by:

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ev. 8/23/13						*		
PI 47- 087	04745	Farm n	ame MCCLA	IN, JOHN	R. & K/#/	198 partm	whit 303	
F1 4/					Enviror	nmental	rotection did cen	nent circulate (Y/N)
ASING	Hole	Casing	Depth	New or Used	wt/ft		th(s) * Provi	de details below*
TRINGS_ onductor	Size 12 1/4"	Size 11 5/8"	30'	Used		.s		Sand In
		7"	558'	New		s	64'	Υ
ırface	8 3/4"		338	- 110	<del>-  </del>			
oal								
termediate 1				+				
ntermediate 2				<del></del>	+			
ntermediate 3				Name	_	-55		Y
roduction	6 1/4"	4 1/2"	2364.7'	New		-55		
ubing			<u> </u>					
acker type and d	epth set							
Comment Details	Circulated Est. 50	sks to surface on 7" s				n 4 1/2" cement job.	Cement	woc
CEMENT	Class/Type			urry (ppg)	Yield (ft³/sks)	(ft <sup>1</sup> )	Top (MD)	(hrs)
DATA Conductor	of Cement	01.58	V	,, FS/				
Surface	Peg Meg	14	0 1	5.6	1.18	165.2	Surface	88
Coal	Reg Nea	14	<del>-   - '</del>	-				
ntermediate 1	<u> </u>							
ntermediate 1								
ntermediate 3			05 42.5	2/14.2	1.64/1.27	147.6/186	40'	8
Production	50:50 Pozn	nix 90/1	25 13.4	2/14.2	1.07/1.27	1		
Tubing								
Drillers TD (1	A) 2380°			Logger	rs TD (ft) 23	84'		
	ation penetrate	d Big Injun		Plug b	ack to (ft) N	/A		
Plug back pr								
t tab ones. I.								
Kick off dept	h (ft) <u>650'</u>							
Check all wir	reline logs run	<b>≜</b> calipe <b>≜</b> neutro			viated/direct mma ray	<b>i</b> te	duction mperature DS0	
	□ Yes  No			idewall		_	collected ■ Yes	
DESCRIBE :	тие селтр А	LIZER PLACE	MENT USED	FOR EACH	H CASING	STRING		
20 Centralizers overy	B8 from bottom on 4 1/2°, C	entrelizer placed mid string o	on 7*					
WAS WELL	, COMPLETE	O AS SHOT HO	LE 🗆 Yes	No	DETAILS			
		O AS SHOT HO						
			? 🗆 Yes 📱	No I	DETAILS _			

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API 47- 087 \_ 04745

WV Department of 103
Farm name MCCLAIN, JO世內BirokEATON 103

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	2/4/15	2234'	2242'	32	Big Injun
<u> </u>					
\					
-					
				J	

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	418	1459	421	2,500	140	
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Please insert additional pages as applicable.

Page 4 of 4 WR-35 Rev. 8/23/13 Farm name MCCLAIN, JOHN R. & KEATON Well number 103 API 47- 087 \_ 04745 **DEPTHS** PRODUCING FORMATION(S) RECEIVED 2234'- 2242' 2178'- 2196' MD TVD Office of Oil and Gas Big Injun FEB 2.5 2015 WV Department of Environmental Protection Please insert additional pages as applicable. OIL TEST Flow □ Build up □ Drawdown □ Open Flow GAS TEST DURATION OF TEST \_\_\_\_ Bottom Hole\_ psi psi SHUT-IN PRESSURE Surface GAS MEASURED BY Water NGL OPEN FLOW □ Pilot □ Estimated □ Orifice bpd bpd bpd mcfpd BOTTOM TOP BOTTOM TOP LITHOLOGY/ DESCRIBE ROCK TYPE AND RECORD QUANTITY AND DEPTH IN FT DEPTH IN FT DEPTH IN FT DEPTH IN FT FORMATION TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC) MD MD NAME TVD TVD 1008 1003 0 Sand/Shale 0 1118 1112 1008 1003 Sand 1211 1118 1200 1112 Shale 1304 1292 1211 1200 Sand 1730 1304 1700 1292 Shale 2032 1730 1990 1700 Sand 2054 2032 2012 1990 Little Lime 2070 2054 2012 2026 Pencil Cave 2200 2070 Big Lime 2026 2152 2228 2178 2200 2152 Keener Drilled directional N 33° E a distance of 369' 2246 2228 2196 2178 Big Injun 2380 2246 2196 2326 Shale 2380 2326 TD Please insert additional pages as applicable. Drilling Contractor Decker Drilling State OH Zip 45784 Address 11565 State Route 676 Vincent City Logging Company Weatherford International Zip 26452 WV Address 777 North River Avenue Weston State City Cementing Company Universal Services Zip 26201 WV Buckhannon State Address Hall Rd City Stimulating Company Producers Service Corp. Zip 43701 OH Zanesville State Address 109 South Graham Street City Please insert additional pages as applicable. Telephone 304-420-1107 Completed by Roger Heldman

Title Operations Manager

Signature \_

Date 2/16/2015

Prepared for: H G Energy	PRODUCERS SERVICE CORP.		P J 1	repared by: roducers Servi ason Stanbery 09 S. Graham Lanesville, OH 40-454-6253	St.
INVOICE #: 18121					1
WELL NAME: S B Kinkead #103					-
STATE & COUNTY: WV/Roane					
TOWNSHIP/FIELD: Clover				*	
DATE of SERVICE: 2/10/2015	*				
CUSTOMER PO#					
Description	Notes	Amount	Units	Unit Cost RE	Total Cost CEIVED
FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1	EA EA		f Oil and s
RI ENDER CHARGE 0-10 BPM	Mary Commence	0	MI		
MILEAGE CHARGE PER UNIT ONE WAY	2 Units @ 150 Miles	250	GAL	1	f E
IC ACID 15%		0.5	GAL	,	
PRO HIB II		2	HR	MANAGE	appen of
ACID DELIVERY		15	GAL	WV De	
PRO CLA LOK (KCL SUBSTITUTE)		5	GAL	Environm	ente ectio
PRO NE-21		150	LB		
PRO GEL 4 BUFFER I		50	LB	-	
BUFFER II		50		K	ECEIVED
PRO CLA LOK (KCL SUBSTITUTE)		15 15		Office	of Oil and Bas
AP BREAKER		10			
BXL-A		10		F-	- * - n
BXI-10C		25		1	
SAND 20/40 OTTAWA		100	_	MAL	
SAND DELIVERY / TON MILES		2	LB	Enviro	ent of
BIO CLEAR 750		1	STAGE	I-unionu	ent of
DATA VAN					

Customer Approval: