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

API 47- 087	04747 County ROA	ANE	District SMITHFIE	ELD
Quad LOONEYVILLE			Field/Pool Name	
Form name MCCLAIN,	More   Marie   Marie   More   More		Well Number 102	2
Operator (or registered w	th the OOG) H.G. ENERGY	LLC	. 1, 41, 2 191, 447	
Address 5260 DuPON	r ROAD City	PARKERSBURG	State WV	Zip 26101
Landing Point of Botton  Elevation (ft) 1,114'  Permit Type Devia  Type of Operation Con  Well Type Brine Disp  Type of Completion S  Drilled with Cable  Drilling Media Surface	p hole Northing 4,285,478 Curve Northing 4,285,478 Northing 4,285,555  GL Type of W  ted  Horizontal  Horizontal  Horizontal  CBM Gas Oil  Rotary  hole Air Mud Fresh Water A	M Eas  Eas  M Eas  M Eas  M Eas  Cell ■New □ Existing  rizontal 6A □ Vertical  □ Plug Back □ Redr  Secondary Recovery □ Secondary Reco	ting 475,123 M ting 474,860 M  Type of Report Depth Type illing Rework olution Mining S  NGL A Oil	□ Deep
Date completion activities	began2/4/15	Date completion ac	ivities ceased	2/10/15
Please note: Operator is a		pplication within 5 days of	verbal permission to	
Freshwater depth(s) ft _	None	Open mine(s) (Y/N)		None
Salt water depth(s) ft	1775'	Void(s) encountered	(Y/N) depths	None
Coal depth(s) ft	None	Cavern(s) encountered	ed (Y/N) depths	None
Is coal being mined in are	a (Y/N) N			Reviewed by:

04/15/2022

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API 47-087	04747	Farm name	ACCLAIN, JO	OHN R. & KE	ATON Well	number_102		
CASING STRINGS	Hole Size	Casing Size I		w or Grad	-	Basket Depth(s)		ent circulate (Y/N) le details below*
Conductor				Jsed	LS	o opuito)		Sand In
Surface	8 3/4"			Vew	LS	64'		N
Coal		-	·					•
Intermediate 1			· · · · ·					
Intermediate 2		•		, , , , , , , , , , , , , , , , , , , ,				
Intermediate 3.								
Production	6 1/4"	4 1/2" 25	76.4'	New	J-55			Y
Tubing								
Packer type and d	epth set							
Comment Details		o surface on 7" surface ce	· · · · · · · · · · · · · · · · · · ·	Est. 35 sks to surface Yield	on 4 1/2" cement	job.	nt	woc
CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	(ft 3/sks)	(ft <sup>2</sup> )	Top (M		(hrs)
Conductor								
Surface	Reg Neat	140	15.6	1.18	165	Surfac	æ	8
Coal						-		
Intermediate 1	<u> </u>							
Intermediate 2						· ·		<del></del>
Intermediate 3				4.0444.07	400400	. 40'		8
Production	50:50 Pozmix	110/125	13.2/14.2	1.64/1.27	180/186	40		<u>-</u>
Tubing		<u>.                                    </u>		<u></u>				
Drillers TD (ft	2631'		Log	ggers TD (ft) 2	631'			
	tion penetrated Big	Injun	Plu	g back to (ft) <u></u>	₩A			
Plug back pro	cedure N/A			· .		<del></del>		<u> </u>
Kick off depth	(ft) <u>550'</u>	· ·	•	-				
Check all wire	line logs run	•		deviated/direc gamma ray		duction emperature	□sonic	•
Well cored		Conventional				collected .		
DESCRIBE TI 20 Centralizers every 83 (	HE CENTRALIZE rom bottom on 4 1/2*, Centralizer	R PLACEMENT U	JSED FOR EA	CH CASING	STRING		<del></del>	
						·		
								<u>-</u>
WAS WELL O	COMPLETED AS	SHOT HOLE	Yes 2 No	DETAILS				
WAS WELL C	OMPLETED OPE	N HOLE? DY	es 🛭 No	DETAILS _			·	
WERE TRACE	ERS USED	s B No TY	PE OF TRAC	ER(S) USED				



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API	47-087	_	04747
	7/-	-	

Farm name MCCLAIN, JOHN R. & KEATON Well number 102

## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	2/4/15	2524'	2532'	32	Big Injun
-	Zi ii io				
				1	
					The state of the s
				7	
-					12
				- 1	
		,			

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	494	1035	312	2,500	150	
	2/10/10							
		4						
			-					
			· ·				3.5	
_								-
						-		
							1	
	Y							

Please insert additional pages as applicable.



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API 47- 087	_ 04747	Farn	name MCCLA	N, JOHN	R. & KEATO	N Well n	umber_	102		
			30 mm 12 / 20 mm							
PRODUCING	FORMATIO	<u>v(S)</u>	DEPTHS							
Big Injun			2182'- 2198'	TVD	2507'- 2538'	MD				
Please insert ac	Iditional page	s as applicable.								
GAS TEST	n Build up	□ Drawdown	□ Open Flow		OIL TEST D	Flow D	Pump			
SHUT-IN PRE	SSURE S	rface	_psi Botto	m Hole	psi	DURAT	ION OI	F TEST	Γhrs	
OPEN FLOW	Gas m	Oil nefpd	NGL bpd		Water bpd	GAS M	EASUI	RED B	Y ĭce □Pilot	
LITHOLOGY/	TOP DEPTH IN F	BOTTOM  DEPTH IN F	TOP T DEPTH IN FT	BOTTOM DEPTH IN		ROCK TYP	E AND F	RECORL	O QUANTITYAND	
FORMATION	NAME TVD		MD	MD					NE, OIL, GAS, H2S, ET	(C)
Sand/Shale	0	998	0	1004						
Sand	998	1112	1004	1119						
Shale	1112	1200	1119	1211						_
Sand	1200	1288	1211	1309			-11			
Shale	1288	1716	1309	1768						
Sand	1716	1992	1768	2182						
Little Lime	1992	2018	2182	2232						
Pencil Cave	2018	2026	2232	2246						_
Big Lime	2026	2155	2246	2463						
Keener	2155	2182	2463	2507			F. S. P. P.			-
Big Injun	2182	2198	2507	2538		Orilled direc	tional S	69° E a	distance of 877'	_
Shale	2198	2268	2538	2631						_
TD	2268		2631		LU S					_
							_			_
Please insert a	dditional page	s as applicable.								
Drilling Contr	actor Decker I	Orilling							75-24	
Address 11565	State Route 67	6	City	Vincent		State	OH	Zip	45784	_
Logging Comp	pany Weather	ford Internationa	ll	Weston		State	wv	Zin	26452	
Address 777 N	orth River Avenu	16	City	vvesiuii		State		_ z.ib		_
Cementing Co	Unive	rsal Services								
Address Hall F	Id		City	Buckhann	on	State	WV	Zip	26201	_
Addioss										
Stimulating C		ducers Service (		era a line			OH	71.	43701	
Address 109 S	outh Graham St	reet	City	Zanesville		State	011	_ Zip	34001	_
Please insert a	dditional page	es as applicable								
	Roger Helds	man .			Telephon	e 304-420	-1107			Ť
Completed b	A Proger rieidi	10/10	Title C	Operations M	anager		Date 2	/18/15		
Signature	1 m	, and	Title	* 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
Submittal of I	Iydraulic Frac	turing Chemica	al Disclosure Info	ormation	Attach copy	ofFRAC	FOCUS	Regist	try	

04/15/2022