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 <u>047</u> O47	747 County ROAN	E	District SMITHFI	ELD
Quad LOONEYVILLE 7.5'	Pad Name CAF	RR-NICHOLS	Field/Pool Name	
Farm name MCCLAIN, JOH	IN R. & KEATON		Well Number 102	
Operator (as registered with the		LC		
Address 5260 DuPONT Ro	OAD City PA	ARKERSBURG	State WV	Zip 26101
As Drilled location NAD 83 Top ho	le Northing 4,285,478 M		asting 475,123 M	
Landing Point of Cur		Ea	sting 474,860 M	
Bottom Ho	ole Northing 4,285,555 M	Ea	sting 474,860 M	
Elevation (ft) 1,114'	_ GL Type of Well	■New □ Existing	Type of Repor	t □Interim
Permit Type Deviated	□ Horizontal □ Horizo	ontal 6A	Depth Type	□ Deep 🗂 Shallow
Type of Operation Conver	t □ Deepen ■ Drill	□ Plug Back □ Red	rilling Rework	□ Stimulate
Well Type Brine Disposal	□ CBM □ Gas □ Oil ■ Se	econdary Recovery	Solution Mining DS	torage Other
Type of Completion ■ Single Drilled with □ Cable ■ R Drilling Media Surface hole Production hole ■ Air □ M Mud Type(s) and Additive(s) N/A	otary	ater Intermediate		
Date permit issued11/1				
Date completion activities beg				
Verbal plugging (Y/N)	Date permission grant	ed	Granted by	
Please note: Operator is requi	red to submit a plugging appli	cation within 5 days of	verbal permission to	plug
Freshwater depth(s) ft	None	Open mine(s) (Y/N)	depths	None
Salt water depth(s) ft	1775'	Void(s) encountered		None
Coal depth(s) ft	None	Cavern(s) encounter		None
Is coal being mined in area (Y	(N) N			
is com being inflied in area (1				Deviewed by:

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	04747			N, JOHN F	E	nvironme	ëntăt Prot	lection	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Ва		Did cement circulate (Y/ I * Provide details below*	
Conductor	12 1/4"	11 5/8"	30'	Used		s	pu.(0)	Sand In	
Surface	8 3/4"	7"	562'	New	1	.s	64'	N	
Coal			-			-			
ntermediate 1									
ntermediate 2			-						
ntermediate 3									
roduction	6 1/4"	4 1/2"	2576.4'	New	J.	-55		Y	
ubing								<u> </u>	
acker type and d	epth set				·				
comment Details	Grouted w/ Est. 25	sks to surface on 7" su	uface cement Job. Cir	cutated Est. 35 sk	s to surface or	n 4 1/2" cement job). 		
CEMENT DATA	Class/Type of Cement	Numbe of Sack			ield ³/sks)	Volume (ft ²)	Cement Top (MD		
Conductor									
urface	Reg Neat	140	15.6	5 1	.18	165	Surface	8	
oal									
termediate 1									
termediate 2									
termediate 3									
oduction	50:50 Pozmix	110/12	5 13.2/1	4.2 1.6	4/1.27	180/186	40'	8	
ibing									
rillers TD (ft) eepest format lug back prod	tion penetrated	Big Injun		Loggers T		,			
ick off depth	(ft) 550°								
heck all wirel	ine logs run	를 caliper 를 neutron	■ density ■ resistivity		ed/direction ray			□sonic	
ell cored 🗆	Yes 🖪 No	Convention	onal Sidev	wall	We	ere cuttings co	ollected 🖪 Y	es □ No	
	TE CENTRALIS		ENT USED FO	R EACH CA	SING ST	RING			
'AS WELL C	OMPLETED A	S SHOT HOLE	□ Yes ■	No DE	TAILS _				
		DENTITO DO	37 8 37	DET	TT C				
'AS WELL C	OMPLETED O	PEN HOLE?	□ Yes ■ N	o DEIA	лг2				

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WV Department of Farm name MCCLAIN, JOHN R. KEATON ewith Protection

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
			_		

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	
-								
								_
					-			
-			<u> </u>					
\vdash								
					_			
		<u> </u>						
						 		
						<u> </u>		

Please insert additional pages as applicable.

API 47- 087	_ 04747	Farm	name_MCCLA	IN, JOH	N R. & KE	ATON Well	number_102	
PRODUCING	FORMATION((S)	DEPTHS					
Big Injun			v 00000 - 200000	TVD	2507'- 250	88' MD		DEOENVES
			2102 2100			MD		RECEIVED e of Oil and Gas
					-			FEB 25 2015
	lditional pages a							Department of
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL TEST	Flow D	P. F. Pviron	imental Protection
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole_	р	si DURA	ΓΙΟΝ OF TES	Thrs
OPEN FLOW	Gas mef	Oil pd	NGL bpd				⁄IEASURED I mated □ Ori	
LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT		BOTTOM DEPTH IN	FT DESC			D QUANTITYAND
Sand/Shale	NAME TVD 0	TVD 998	MD 0	MD 1004	TIPE	OF FLUID (FRE	SHWATER, DRI	NE, OIL, GAS, H ₂ S, ETC)
Sand	998	1112	1004	1119				
Shale	1112	1200	1119	1211				
Sand	1200	1288	1211	1309				
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				
Big Injun	2182	2198	2507	2538		Drilled direc	ctional S 69° E a	distance of 877'
Shale	2198	2268	2538	2631				
TD	2268		2631					
Please insert ad	ditional pages a	s applicable.						
Drilling Contra	ctor Decker Dril	lina						
Address 11565	State Route 676		City	Vincent		State	OH Zip	45784
Logging Compa	any Weatherford	d International					200.4	20.00
Address 777 No	rth River Avenue		City	Weston		State	WV Zip	26452
Cementing Con Address Hall Rd	npany Universal	Services	City	Buckhann	ion	State	Zip	26201
Stimulating Co.	mpany Produc	ers Service Co	rp. City	Zanesville		State	OH Zip	43701
	ditional pages a							
Completed by	Roger Heldman	1)			Telep	hone 304-420	-1107	
Signature	Bu 10	aldu	Title _O	perations M	anager		Date 2/18/15	
Submittal of Hy	draulic Fractur	ing Chemical	Disclosure Info	rmation	Attach co	ppy of FRACI	FOCUS Regis	try

Prepared for:				Prepared by:	
H G Energy				Producers Serv	ice Corp
				Jason Stanbery	
· · · · · · · · · · · · · · · · · · ·					
	PRODUCERS			109 S. Graham	~
	SERVICE CORF.			Zanesville, OH	43702
				740-454-6253	1
INVOICE #: 18120					f.
WELL NAME: Carrr-Nichols#102					
STATE & COUNTY: WV/Roane					*
TOWNSHIP/FIELD: Clover	4F				
DATE of SERVICE: 2/10/2015	*				
CUSTOMER PO#					
Description	Notes	Amount	Units	Unit Cost	Total Cost
FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1	3		
BLENDER CHARGE 0-10 BPM		1			
MILEAGE CHARGE PER UNIT ONE WAY	2 Units @ 150 Miles	300			
IC ACID 15%		250	3		
PRO HIB II		0.5			
ACID DELIVERY		2	_	DECENT	ED.
PRO CLA LOK (KCL SUBSTITUTE)		15	RECEIVED		
PRO NE-21 PRO GEL 4		150	- 0	ffice of Oil a	nd Gas
BUFFER I		50	-		
BUFFERII		50	-	FEB 252	015
PRO CLA LOK (KCL SUBSTITUTE)		15	-	1,44	
AP BREAKER		15		WV Departr	nent of
BXL-A		10		VVV Departi	Drotoction
BXL-10C		10	En	rironmental	Protection
SAND 20/40 OTTAWA		25			
SAND DELIVERY / TON MILES	<u>Hannania and Annania and Anna</u>	100	1		
BIO CLEAR 750		2	_		
DATA VAN		1	\$		
			_		
La company of the com					

Customer Approval: _