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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 - 097	_ 03855	County Upshur		District W	Vashingto	n			
Quad Buckhannon 7	7.5'	Pad Name Roessi	ng #3	Field/Pool Name N/A					
Farm name George F	lenry Roessi	ng, Jr.		Well Nun	nber #3 V	VV0459			
Operator (as registered	with the OOG	Mountain V Oil & Ga	as, Inc.	_					
Address PO Box 470)	City Bridg	eport	State	WV	Zip 26330			
Landing Poin	Top hole t of Curve	Attach an as-drilled Northing 4,309,892.2 Northing NA Northing NA		Easting N/A Easting N/A					
Elevation (ft) 1,663	GL	Type of Well	New Existing	у Туре	of Report	□Interim B Final			
Permit Type De	viated D	orizontal Horizonta	al 6A 🖪 Vertic	cal Dep	th Type	□ Deep ■ Shall	low		
Type of Operation	Convert 🗆 1	Deepen ■ Drill □ I	Plug Back 🗆 F	Redrilling C	Rework	□ Stimulate			
Well Type ☐ Brine D	isposal □ CBl	ví ĒlGas □ Oil □ Seco	ndary Recovery	□ Solution Mi	ning 🗆 Ste	orage 🗆 Other			
Drilled with Cable	■ Rotary	ıltiple Fluids Produce r □ Mud □Fresh Wate			□ Oil	□ Other	rine		
Production hole	ir 🗆 Mud	□ Fresh Water □ Brine							
Mud Type(s) and Add	litive(s)		,						
Date permit issued	6/19/2013	Date drilling comm	enced 8/5/2	013 _{Da}	ate drilling	ceased 8/14/2013	 3		
Date completion activi		10/2/2013	Date completion		•				
Verbal plugging (Y/N)	· -	Date permission granted	A1/A		ed by		_		
Please note: Operator	is required to s	ubmit a plugging applicat	tion within 5 days	s of verbal perr	nission to p	olug			
Freshwater depth(s) fi	<u>.</u>	36', 352'	Open mine(s) (Y	/N) depths		N			
Salt water depth(s) ft		AL/A	Void(s) encounte			N/A			
Coal depth(s) ft	0001.0		Cavern(s) emegn			N			
Is coal being mined in	area (Y/N)	N	Office	of Oil & G	as	Reviewed by:			
			DEC	0 4 2013			_		

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API 47-097	_ 03855	Farm na	me George H	lenry Roe	ssing, Jr	<u>·</u> We	ll numb	er_#3 W	V0459
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		Did cement circulate (Y/N) Provide details below*
Conductor		13 3/8°	42'	New					N/A
Surface	12 1/4°	9 5/8"	548'	New	J2	2 lb/ft			Yes 200 SKS
Coal						_			
Intermediate 1	8 1/4"	7°	1789'	New	J1	7 lb/ft			Yes 271 SKS
Intermediate 2									
Intermediate 3	1								
Production	6 1/4°	4 1/2°	7298'	New	N 11	1.6 lb/ft			150 SKS
Tubing									
Packer type and de	epth set			·			-		
CEMENT	Class/Type	Number			Yield	Volume		Cement	woc
DATA Conductor	of Cement	of Sacks	wt (pp	g) (1	t ³/sks)	(ft,²)	 	Top (MD)	(hrs)
Surface	A	200	15.6	/ 	1.18	236	-	Surf	12
Coal		200	13.0	<u>' </u>	1.10	200	\dashv		12
Intermediate 1	A	271	14.8		1.4	379.4	Surl		12
Intermediate 2			14.0	<u>'</u>	-	079.4		Oun	12
Intermediate 3		· · · · · · · · · · · · · · · · · · ·				<u> </u>	_		
Production	50/50 POZ	150	14.1		1.29	193.5		6000	168
Tubing	5000.52	+			<u> </u>				
•) 7301' tion penetrated cedure			Loggers 7		28			
Kick off depth	(ft) N/A				•				
Check all wireline logs run Caliper									
Well cored	Yes No	□ Convention	onal 🗆 Sidev	wall	W	ere cutting	gs collec	cted 🗆 Y	es □ No
DESCRIBE T	HE CENTRALI	ZER PLACEME	ENT USED FO	R EACH C	ASING S	TRING _	N/A		
	·								
WAS WELL	COMPLETED A	S SHOT HOLE	Yes 🖪	No D	ETAILS				
WAS WELL	COMPLETED O	PEN HOLE?	□Yes ■ N	o DET	AILS C	RE(CEIV	_	S
WERE TRAC	ERS USED o	Yes A No	TYPE OF T	RACER(S)	USED _	DEC	047	2013	

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Farm name______ George Henry Roessing, Jr.

_Well number____#3 WV0459

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	8/21/2013	7170'	7209'	72 Holes	Marcellus
-				 	
		-		 	
			<u> </u>		
	-				
L	l		<u> </u>		l

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	10/2/13	70.9	4853	6068	2216	578,600	12,079	N/A
			· · · · · ·					
					· · · · ·			
			<u> </u>	1				
				0.00	RECEIVI	:D		
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				WV	Departm	ent of		
				Enviro	Hiroma F	rotoction		
				 	HAGE F	rotectioi	<u> </u>	

Please insert additional pages as applicable.

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API 47- 097	_ 03855		_ Farm	name George He	enry Roess	ing, .	Jr.	_Well n	umber_ f	#3 WV0)459
PRODUCING Marcellus	FORMATIO	ON(S)		<u>DEPTHS</u> 7170'	_ TVD 	720	99'	MD 			
Please insert ad	lditional pag	ges as ap	– plicable.		*****		-				
GAS TEST	🗆 Build up	o Dra	awdown	□ Open Flow		OIL	TEST of	low 🗆	Pump		
SHUT-IN PRE	SSURE S	Surface	2550	psi Botto	m Hole N	Α	psi	DURAT	100 01	TEST	r <u>24</u> hrs
OPEN FLOW		mcfpd	Oil	NGL bpd	bpd	Wa	nter bpd	GAS M	IEASUF nated	RED B	Y ice 🗆 Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN NAME TV	FT DE	BOTTOM EPTH IN FT TVD	MD	BOTTOM DEPTH IN MD						O QUANTITYAND IE, OIL, GAS, H₂S, ETC)
SEE ATTACHMENT	0			0							

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						Ef	vironm	entai	Prot	ecti	on
Please insert ac											
Orilling Contra Address PO Bo	x 397	Oil & Gas	S	City	Glenville			_ State	wv	_ Zip ˌ	26351
Logging Comp Address PO Bo	any Nabors x 975682	Comple	tion & Proc	duction Services	Co. Dallas			_ State	TX	_Zip	75397-5682
Cementing Con Address PO Bo	mpany <u>Unive</u> x 200969	ersal We	ell Services	Inc. City	Dallas			_ State	тх	_ Zip	75320-0969
Stimulating Co	p	niversal V	Vell Servic	es Inc. City	Dallas			_ State	тх	_ Zip	75320-0969
Please insert ac	Hitional pag	ges as ap	plicable.								
Completed by Signature	Mijke Skave	er //	m	Title P	resident	_	Telephone		-6320 Date 11	/19/201	3
Submittal of H	ydraulic Fra	/ cturing	Chemical	Disclosure Info	rmation	Αı	ttach copy of	FRACE	ocus	Regist	гу

	TOP	воттом	TOP	воттом	DESCRIBE ROCK TYPE AND RECORD QUANTITY
LITHOLOGY/	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	AND TYPE OF FLUID (FRESHWATER, BRINE, OIL,
FORMATION	NAME TVD	TVD	MD	MD	GAS, H₂S, ETC)
Shale/Sand		-	0	1100	
Shale			1100	1174	
Sand			1174	1228	
Lime			1228	1382	
Big Lime			1382	1460	
Injun			1460	1515	
Squaw			1515	1590	
Shaley Sand			1590	1926	
Gordon			1926	2008	
Shale			2008	2046	
4 th Sand			2046	2052	
Shale			2052	2098	
5 th Sand			2098	2114	
Shale			2114	3449	
Riley			3449	3513	
Shale		-	3513	3798	
Benson			3798	3842	
Shale			3842	3901	
Shale/Sand			3901	6944	
Geneseo			6944	6984	
Tuliy			6984	7028	
Hamilton Shale			7028	7108	
Upper Marcellus			7108	7148	
Purcell			7148	7152	
Lower Marcellus			7152	7222	
Onondaga			7232	7240	
Chert			7240	7328	
TD				7328	

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