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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 - 085 _ 10153	County Ritchie	Г	oistrict Murphy				
Quad Smithville 7.5'	Pad Name none		Field/Pool Name Eva Field				
Farm name BBGJ, Inc.		,	Well Number Cox	x Heirs M1			
Operator (as registered with the OOG)	Murvin & Meier O	il Co.					
Address P. O. Box 396	City Olr	ney	State IL	Zip <u>62</u>	450		
	Attach an as-drille Northing 4,321,320 Jorthing n/a		ng 496,593				
	Northing 4,321,320		Easting n/a Easting 496,593				
Elevation (ft) 995' GL	Type of Well	■New □ Existing	Type of Report				
Permit Type Deviated Ho	orizontal 🗆 Horizon	ntal 6A 📕 Vertical	Depth Type	□ Deep	■ Shallow		
Type of Operation □ Convert □ D	eepen 🖪 Drill 🛚 🗈	□ Plug Back □ Redrill	ing 🗆 Rework	□ Stimulate			
Well Type □ Brine Disposal □ CBM	■Gas ■Oil □Se	condary Recovery Sol	ution Mining □ S	torage Other	er		
Type of Completion		ater Intermediate he	□NGL ■Oil		ter 🗆 Brine		
A.	ovember 18, 2014 Date permission grante	ed	ities ceased Nov	vember 21, 2			
501 / 1	\ 5001/1 \						
	o) 580' (damp)	Open mine(s) (Y/N) de	pths	N i			
out water depth(s) it	one	Void(s) encountered (Y	/N) depths	N			
Coal depth(s) ftNo		Cavern(s) encountered	(Y/N) depths	N			
Is coal being mined in area (Y/N)	N	Office of Oil 8	d k Gas	Reviewe	i by:		
		JAN 2 2 201	5		02/06/2		

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API 47- 085	_ 10153	Farm na	me_BBGJ, Inc	C	·	We	ll number	Cox	Heirs M	1
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)			circulate (Y/ N) details below*
Conductor	17 1/2"	16"	20'	new						
Surface	15"	11 3/4"	301'	new	AT 5	0 / 42#	42'			Υ
Coal										
Intermediate 1	11"	8 5/8"	1899'	new	J-5	5 24#	42'			Υ
Intermediate 2										==
Intermediate 3										
Production	7 7/8"	4 1/2"	6113'	new	WT 6	5 10.5#	4174' 3	792'		N
Tubing										
Packer type and de	epth set									
Comment Details production basket - 3414*										
CEMENT DATA	Class/Type of Cement	Number of Sacks			Yield t³/sks)	Volum (ft ³)	-	Cemen Top (Mi		WOC (hrs)
Conductor	or cement	OI Sacks	Wt (pp:	B) (1	t /3K3)	1 110 7		TOP (MI	<u>Б)</u>	(iiis)
Surface	Type 1	180	15.6		1.18	212		CTS		8
Coal	.,,,,,,		- 10.0							
Intermediate I	Type 1	450	14.8		1.38	621		CTS		8
Intermediate 2	1,400 1	755	17.0		1.00	021				0
Intermediate 3										
Production	CBL Poz	500	13.6		1.54	770		2980	,,	 -
Tubing	352.732	-			1.01		- - : -			
Deepest forma Plug back pro	Drillers TD (ft) 6131' Deepest formation penetrated Rhinestreet Plug back to (ft) 1/4a Plug back procedure 1/4a									
Kick off depth (ft) n/a Check all wireline logs run										
Well cored	Well cored □ Yes ■ No □ Conventional □ Sidewall Were cuttings collected □ Yes □ No									
DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING 4 1/2" × 7 7/8": 6094' 5922' 5750' 5579' 5279' 5193' 5064' 4937' 4632' 4598' 4513' 4047' 3920' 3835'										
WAS WELL COMPLETED AS SHOT HOLE □ Yes ■ No DETAILS										
WAS WELL COMPLETED OPEN HOLE? Des No DETAILS Received Office of Oil & Gas										
WERE TRACERS USED Yes No TYPE OF TRACER(S) USED JAN 2 2 2015										

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API 47- 085 - 10153 Farm name BBGJ, Inc. Well number Cox Heirs M1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	11-19-14	6020	6106	22	Rhinestreet
2	11-19-14	5546	5820	20	Rhinestreet / 2nd Elk
3	11-20-14	4672	4996	23	Alexander/Benson/Riley
4	11-20-14	3920	4442	22	Bradford/Balltown
5	11-20-14	3382	3792	20	Balltown/Warren

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	11/19/14	30	2780	1700	1148	35,000	791	
2	11/19/14	30	1830	2930	1013	36,000	850	
3	11/20/14		2680	3387	2023	-	-	650,000 scf
4	11/20/14		2390	2560	1876	_	-	650,000 scf
_ 5	11/20/14		2420	2590	1835	-	_	700,000 scf
<u> </u>								

Please insert additional pages as applicable.

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API 47- 085	_ 10153	Farm	name BBGJ, Inc). 		Well numb	er Cox Heirs M1	
PRODUCING I	FORMATIO	<u>N(S)</u>	DEPTHS					
same as perfora	ation record	···		TVD		MD		
								
Please insert ad	ditional page	s as applicable.						
GAS TEST	□ Build up	□ Drawdown	■ Open Flow		OIL TEST	Flow - Pun	ıp	
SHUT-IN PRE	SSURE S	urface 1200	psi Botto	om Hole	psi	DURATION	OF TEST 72	hrs
OPEN FLOW		Oil nefpd <u>-</u>	NGL bpd <u>-</u>	_ bpd	Water - bpd	GAS MEAS Estimated	SURED BY	⊐ Pilot
LITHOLOGY	TOD	DOTTOM	TOD	ротто	м			
LITHOLOGY/ FORMATION	TOP DEPTH IN F	BOTTOM T DEPTH IN FT	TOP DEPTH IN FT	BOTTOI DEPTH IN		ROCK TVDE AN	D RECORD QUAN	TITVAND
I ORIVIA I IUN	NAME TVD		MD	MD			ATER, BRINE, OIL,	
· · · · · ·	0	8	0	8	1112011	LOID (I KLSIIW)	TER, BRITE, OIL,	GAS, 1125, ETC)
Fill	8	10	8	10				
Clay	10	12	10	12				 -
Sd, Sh, RR	12	15	12	15				
Sand	15	20	15	20				
Sd, Sh	20	30	20	30				
Sh, RR	30	38	30	38				
Sand	38	50	38	50				
Sd, Sh, RR	50	1047	50	1047				
Sand	1047	1110	1047	1110				1
Sd, Sh	1110	1142	1110	1142				
Sand	1142	1191	1142	1191				
Sd, Sh	1191	1232	1191	1232				
RR. Sh	1232	1276	1232	1276				
Please insert ad		••						
		Drilling Corporation	on					
Address P.O.B	ox 903		City	Jane Lew		State WV	Zip <u>26378</u>	
Logging Compa	Weatherf	ord Wireline						_
Address 777 N F	River Avenue	O.G. THI CHIE	Circ	Weston		State WV	71. 26AE2	
\ <u>-</u>			City			State	Zip <u>26452</u>	-
Cementing Con	npany Univer	sal Well Services	, Inc.					
Address P. O. B	ox 200969		City	Dallas		State _TX	Zip 75320	
Caliman Laster C	Univ	ersal Well Service	ae Inc					<u> </u>
Stimulating Co. Address P. O. Be		CISEL TYEN SELVICE		Dallas	_	Cur. TV		Received
Please insert ad		e ae annlicable	City			StateTX_	ZipOffic	of Oil & Ga
. rouse matri du	Jonai page	s as applicable.)				1.	M 0 6 30=
Completed by	Kate MABJaC)xfq/fd			Telenhone	618-395-4405	J.	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Signature	auvvy	nucly	Title E	xecutive Vice			12-30-2014	
۱ Submittal of Hv	draulic Fract	uring Chemical	Disclosure Info	rmation	Attach conv o	of FRACFOCU	S Registry	

Farm name: BBGJ Inc. Well number: Cox Heirs M1 API 47-085-10153

	Тор	Bottom	Тор	Bottom	
Lithology /	Depth in FT	Depth in FT	Depth in FT	Depth in FT	Described Rock Type and Record Quantity and
Formation	Name TVD	T∨D	MD	MD	Type of Fluid (Freshwater, Brine, Oil, Gas, H2S, etc.)
Sand	1276	1903	1276	1903	Ì
Shale	1903	1919	1903	1919	1
Big Lime	1919	1958	1919	1958	
Keener	1958	1982	1958	1982	
Sd, Sh	1982	1996	1982	1996	
Big Injun	1996	2034	1996	2034	:
Sd, Sh	2034	2396	2034	2396	
Berea	2396	2397	2396	2397	
Sd, Sh	2397	3360	2397	3360	
Warren	3360	3428	3360	3428	
Shale	3428	3782	3428	3782	
Balltown	3782	4052	3782	4052	
Shale	4052	4403	4052	4403	
Bradford	4403	4424	4403	4424	
Shale	4424	4669	4424	4669	
Riley	4669	4694	4669	4694	
Shale	4694	4728	4694	4728	
Benson	4728	4751	4728	4751	
Shale	4751	4940	4751	4940	
Alexander	4940	5000	4940	5000	
Shale	5000	5228	5000	5228	
First Elk	5228	5304	5228	5304	i i
Shale	5304	5539	5304	5539	
Second Elk	5539	5578	5539	5578	
Shale	5578	5720	5578	5720	
Upper Rhinestreet	5720	6018	5720	6018	
Lower Rhinestreet	6018	6113	6018	6113	į
Shale	6113	6141	6113	6141	
Total Depth	6141		6141		

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