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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 47 039 06360	County Kanawha	Dis	trict Union					
Quad Pocatalico	Pad Name n/a	Fie	Field/Pool Name n/a					
Farm name Wallace, Matthew M.		Wo	ell Number Wa					
Operator (as registered with the OO	G) Reserve Oil and Ga	as, Inc.						
Address 929 Charleston Road	City_Spe	ncer	State WV	Zip 25276				
As Drilled location NAD 83/UTM Top hole Landing Point of Curve Bottom Hole	Attach an as-drilled Northing 4249423N (38.39 Northing Northing	Easting	0436351E (-81.72	88344W)	andrews			
Elevation (ft) 736 GL	Type of Well	New DExisting	Type of Report	t □Interim &Final				
Permit Type Deviated Deviated Deviated Deviated Deviated Deviated Deviated Deviated Deviated Deviated Deviated Deviated Deviate	Horizontal 🗆 Horizont	al 6A	Depth Type	□ Deep 🙇 Sh	allow			
Type of Operation Convert	Deepen A Drill D	Plug Back 🗆 🗆 Redrilling	g 🗆 Rework	≜ Stimulate				
Well Type □ Brine Disposal □ CE	BM ■ Gas □ Oil □ Seco	ondary Recovery	ion Mining 🗆 S	torage 🗆 Other				
Type of Completion		er Intermediate hole	oNGL □Oil e BIAir □Mu	□ Otherd B Fresh Water □	-			
Date permit issued07/10/2013	Date drilling comm	enced 9/27/13	_ Date drilling	ceased 10/8/1	3			
Date completion activities began	10/21/2013	Date completion activiti	-					
Verbal plugging (Y/N)n/a	Date permission granted	-	Granted by					
Please note: Operator is required to	submit a plugging applica	ition within 5 days of verb	al permission to	plug				
Freshwater depth(s) ft	65'	Open mine(s) (Y/N) dept	hs	NO				
	85', 1150'	Void(s) encountered (Y/N		NO				
Coal depth(s) ft	N/A	Cavern(s) encountered (Y		NO				
Is coal being mined in area (Y/N)	NO		•	Reviewed by:				

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API 47- 039	_ 06360	F	arm name_\	Vallace, I	Matthew I	И.	We	ell num	ber_Wal	lace #1	1	
CASING STRINGS	Hole Casing Size Size		I	New o		Grade wt/ft		Basket Depth(s)			ent circulate le details b	
Conductor	17 1/2	13 3/		38'	New	-	48.0		one			d to surface
Surface	12 1/4	9 5/8		336'	New		26.0	1 a	nt 84'	Υe	s, 8 bbls t	to pit
Coal		***************************************				<u> </u>						
Intermediate 1	8 3/4	7	1	899'	New		17.0	1 a	t 295'	ye	s, 5 bbls t	to pit
Intermediate 2										<u> </u>		
Intermediate 3							200					
Production	6 1/2	4 1/2	4:	510.5'	New		11.6	5@ pts: 10	0,20,30,40,50			
Tubing										~~~		
Packer type and de	pth set					1						
CEMENT	Class/Type		Number	Slurry		/ield	Volum	e	Cemen	-	wo	
DATA Conductor	of Cement		of Sacks	wt (ppg		1 ³ /sks)	(ft.²)		Top (MI	D) T		rs)
Surface	Portland/Calci	um	7/1	N/A		N/A	N/A	-+	GL			3 hrs
Coal	Type 1		110	14.8		1.40	154.0	' +	GL		13	3 hrs
Intermediate 1	14 (80) 5		44055									
Intermediate 2	Unifillite/Type	91	140/75	12.7/15.6		.84/1.18 257.6/8		3.5 GL			1*	1 hrs
Intermediate 3				+			 		 			
Production	Stronglite 25		160	12.3	2.34		374.4 4		4510	. —		2 hrs
Tubing	Suongille 25		100 12			2.34		3/4.4 431		-+		21118
Drillers TD (ft Deepest forma Plug back prod	tion penetrated		ale		Loggers T Plug back							
Kick off depth	(ft)						· 					***************************************
Check all wire	line logs run		-	density resistivity	□ deviat ② gamm	ed/direct a ray		induct tempe		≜sonic	:	
Well cored	Yes 🖺 No	п Со	nventional	□ Sidew	vall	W	ere cuttin	gs colle	ected 🗅	Yes □	No	
DESCRIBE TI 13 3/8": no contrakzera u: 9 5/8": 1 contrakzera u:	sed	IZER PLA	CEMENT	USED FOI	R EACH C.	ASING S	STRING _					
7": 3 centralizers use												
4 1/2°: 6 at joints: 10	, 20, 30, 40, 50, & 60											
WAS WELL O	COMPLETED	AS SHOT	HOLE E	Yes 🗆	No Di	ETAILS						
WAS WELL C	COMPLETED	OPEN HO	LE? ¤Y	es 🛭 No	DET	AILS _						
WERE TRACE	FRS USED I	Yes 5	No TV	PE OF TR	RACER(S)	USED						

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	47 039	06360	_ Wallace, Matthew M.	Wallace #1	
API	47- 555		Farm name	Well number	

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	10/22/13	3746	4458	40	Devonian Shale
2	10/22/13	2902	3632	40	Huron, Devonian Shale
-					
				 	
					Market Programme and the Article Control of the Con
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	10/22/13	50.8	2251.7	2191		0	500 gal	1,005,313 scf
2	10/22/13	54.0	1922.8	1788	800	0	1000 gal	1,006,662 scf
<u> </u>								

Please insert additional pages as applicable.

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API 47- 039	_ 06360		Farm	name_Wall	ace, N	Matthew M.			Well i	number	Wallac	e #1	
PRODUCING	FORMATIO	ON(S)		DEPTHS									
Huron				2815-3613		_TVD	282	2-3620	MD				
Devonian Shale			- ·	3613-4513				0-4520	MD				
													
Please insert ad	lditional pag	es as ap	plicable.										
GAS TEST	□ Build up	o Dra	wdown	Open I	low		OIL	TEST o	Flow c	Pump			
SHUT-IN PRE	SSURE S	Surface _	0	psi	Botto	m Hole 50	***************************************	psi	DURAT	пои о	F TES	T _24	hrs
OPEN FLOW			Oil	bpd		_ bpd _	Wa	ter bpd	GAS N	MEASU nated	RED E	BY fice 🗆	Pilot
LITHOLOGY/	ТОР	E	оттом	ТОР		воттом	1						
FORMATION	DEPTH IN		PTH IN FT	DEPTH I	N FT	DEPTH IN	FT	DESCRIBE	ROCK TY	PE AND	RECOR	D QUANTI	TYAND
	NAME TV	D	TVD	MD		MD		TYPE OF F	LUID (FRE	SHWAT	ER, BRI	NE, OIL, G	AS, H2S, ETC)
	0			0			\dashv						
		_							******				
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									See	Attachme	ent for F	ormations	
Please insert ad	ditional pag	es as ap	plicable.										
Drilling Contra	ctor Kanawi	ha Valley	Drilling										
Address 929 Ch	arleston Road	l			City	Spencer			State	w	Zip	25276	
Logging Comp	any Nabors												
Address 515 We	est Greens Ro	ad, Suite	1100		City	Houston			State	TX	Zip	77067	
· · · · · · · · · · · · · · · · · · ·				•	•								
Cementing Cor Address Rt 5 Ha	npany Unive	ersai we	Services	, Inc.	City	Buckhanno	on		State	wv	Zip	26201	
Stimulating Co	mnany Bai	ker Hugh	ies										
Address 17015	Aldine Westfie	ld Road		·····	City	Houston			State	TX	Zip	77073	
Please insert ad			plicable.		•				_				
Completed by	Ryan Fleids	s C	7 .					Telephone	e 304-927	-5033		,	
Signature	Kyle	rte	let	Ti	tle cl	erk				Date _	12/	3//2	2/3
Submittal of Hy	vdraulic Fra	/ cturing (Chemical	Disclosure	: Info	mation	At	tach copy o	of FRACI	FOCUS	Regist	, :гу	

Formation	TOP (TVD)	BOTTOM (TVD)	TOP (MD)	BOTTOM (MD)	Remarks
KB to GL			0	7	65', damp,
Dirt & Clay	0	23	7	30	start soaping
Rock	23	73	30	80	
Shale	73	133	80	140	1085', 1/2"
Sand & Shale	133	353	140	360	stream
Shale	353	383	360	390	
White Sand	383	623	390	630	1150', 2"
Sand & Shale	623	1045	630	1052	stream
Salt Sand	1045	1552	1052	1559	
Maxton	1552	1579	1559	1586	1360', switch
Little Lime	1579	1611	1586	1618	to fluid
Shale	1611	1615	1618	1622	
Big Lime	1615	1788	1622	1795	4520', gas check
Big Injun	1788	1838	1795	1845	
Shale	1538	2008	1545	2015	4534' loggers td
Sand & Shale	2008	2815	2015	2822	
Grey Shale (Huron)	2815	3613	2822	3620	
Shale	3613	4513	3620	4520	
			-		