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

API <u>47</u> - 041 _ 05696H	County Lewis		District Freen	nans Creek	
Quad Vadis 7.5'	Pad Name Rams		Field/Pool Nan	ne	
Farm name Wilson, Brad,ET AL			_ Well Number	Ramsburg #	1H 2045
Operator (as registered with the OOG	WACO OIL & GAS	Co. INC.			
Address P.O.Box 397	City Gler	nville	State WV	Zip	26351
	Attach an as-drilled Northing Northing Northing	Eas	nd deviation surv sting		
Elevation (ft) 1073' GL	Type of Well	New □ Existing	Type of R	eport Interim	≜ Final
Permit Type Deviated H	Horizontal Horizont	al 6A Dertical	Depth Ty	pe 🗆 Deep	Shallow
Type of Operation □ Convert □ 1	Deepen ■ Drill □	Plug Back Red	rilling Rew	vork 🗆 Stimu	late
Well Type □ Brine Disposal □ CB!	M ■ Gas ■ Oil □ Sec	ondary Recovery	Solution Mining	□ Storage □	Other
Type of Completion □ Single ■ Mu Drilled with □ Cable ■ Rotary Drilling Media Surface hole ■ Ai Production hole ■ Air □ Mud Mud Type(s) and Additive(s)	•	er Intermediate		Oil □ Other	n Water □ Brine
Date permit issued10/20/2014	The state of the s	nenced12/01/201		0.70 N	
Date completion activities began	1/12/2015	Date completion ac	tivities ceased _	1/12/20	15
Verbal plugging (Y/N)	Date permission granted	1	Granted by	fice of Oil a	and Gas
Please note: Operator is required to s	submit a plugging applica	ation within 5 days of	verbal permission	on to plug 16	2015
Freshwater depth(s) ft	35'	Open mine(s) (Y/N) Void(s) encountered	depths	VV Departi	ment of Protection
Sait water depth(s) it	none	Void(s) encountered	(Y/N) depths_		
coar depth(s) it	one	Cavern(s) encounter	ed (Y/N) depths		
Is coal being mined in area (Y/N)	no			Rev	riewed by:

API 47- 041 _ 05696H Farm name Wilson, Brad,ET AL Well number Ramsburg #1H 2045											
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							o opui(o)	1107	ue uctaris ociow		
Surface											
Coal				 							
ntermediate 1	12.250	9 5/8	420	new	<u> </u>	26			Yes		
ntermediate 2	8 3/4	7.00	2025		new 17			_	Yes		
ntermediate 3	0 0/4	7.00	2020	1104		''	······································	163			
Production	6.25	4 1/2	3653	DOW/	1	16					
Γubing	0.23	7 1/2	3033	new 11.6		1.0	.0		no		
Packer type and de	enth set										
Comment Details								-			
CEMENT DATA	Class/Type of Cement			Slurry Yield wt (ppg) (ft ³ /sk				nent (MD)	WOC (hrs)		
Conductor											
Surface											
Coal		ľ									
ntermediate 1	Type 1	150							8 hrs.		
ntermediate 2	Type 1	300							8 hrs.		
ntermediate 3											
Production											
Tubing											
-) 3653 tion penetrated cedure			_		8					
Kick off depth Check all wire	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	■ caliper ■ neutron	_			onal 昌iı 昌t	nduction emperature	□soni	c		
Well cored	Yes No	Conventi		ewall	_		collected		□ No		
DESCRIBE T	HE CENTRALI	ZER PLACEM	ENT USED F	OR EACH C	ASING S	TRING _					
WAS WELL	COMPLETED A	AS SHOT HOLI	E □Yes ■	No D	ETAILS						
WAS WELL (COMPLETED C	PEN HOLE?	□ Yes 🖪	No DET	AILS _						
WERE TRAC	ERS USED \Box	Yes No	TYPE OF	TRACER(S)	USED	.					

API 47- 041 _ 05696H Farm name Wilson, Brad,ET AL Well number Ramsburg #1H 2045

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
. ,					
	-				
	_				

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)
		Tatio (D1 IVI)	11033410 (101)	T 1033410 (131)	1011 (101)	Troppan (103)	Water (cois)	THIOGOIDOILO (MIND)
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	1							
						<u> </u>		
							הרכב	VED Land Gas
						_	HEUL of O	Land Gas
						01	rice or o	- W- 135
							NOV 1	6 2015
							MOY	
			-				W. L. DOW	ertment of
			-				111 1 110 h.	- tention

Please insert additional pages as applicable.

Environmental Protection

WR-35 Rev. 8/23/13

API 47- <u>041</u>	_ <u>05696</u> H	1	Farm	name_	Wilson,	Brad,ET	AL			Well n	umber	Rams	sburg	#1H :	2045
PRODUCING :	FORMATION	ON(S)	DEPT	<u>'HS</u>										
Injun			-	2030		TVD	204	15		MD					
						_ 1 \ D				NID					
															
Please insert ad	ditional pag	ges as	applicable.												
GAS TEST	□ Build up	.	Drawdown	∄ Ор	en Flow		OIL	L TEST	10 1	Flow 🗆	Pump				
SHUT-IN PRE	SSURE	Surfa	ce <u>50</u>	psi	Botto	m Hole		p	si	DURAT	CION C	F TES	T 48		hrs
OPEN FLOW	Gas Show	mcfp	Oil rd Trace			_ bpd				GAS M				□ Pile	ot
LITHOLOGY/ FORMATION	TOP DEPTH IN		BOTTOM DEPTH IN FT		TOP TH IN FT	BOTTOI DEPTH IN							-		
Clay	NAME TV	-	TVD 10	Τ	<u>MD</u> 0	MD		TYPE	OF FL	UID (FRE	SHWAI	EK, BKI	NE, OII	L, GAS,	H₂S, ETC)
Sd/Sh	10		900	+	<u> </u>			-							
Sand	900		950												******
Sd/Sh	950		1450	-								-			
Sand	1450		1600												
Sd/Sh	1600		1844				_								
Little Lime	1844		1854	+		<u> </u>									
Sd/Sh	1854		1892												
Big Lime	1892		2016												
Injun	2016		2040												
T.D.	3653		 -												
Please insert ac	lditional pa	ges as	applicable.								_				
	-	-													
Drilling Contra Address 1595 L		Oil &	Gas		City	Glenville				State	wv	Zip	2635	1	
Logging Comp			Wireline Sen	vices										_	
Address 7777 N	orth River Av	enue			City	Weston				State	wv				
Cementing Con Address 14 Sev	mpany Univ	ersal	Well Service		City	Buckhanr	non			State (7 W V~	RECI	= \√ `2620	1903 1904 - Ú	8S
·			_		City					State(كنتلالى	<u>. e</u> .ip		·	
Stimulating Co Address 14 Sev	mpany <u>Ui</u> ver Plant Roa	nivers d	al Well Servic	æ	City	Buckhani	non			State	wv	NOV zip	1 6 2620	(წქე 1	
Please insert ac			applicable.								10/11	Der	ann	กลก	<u>o</u> f
Completed by	<i></i>							Tele	phone		•.	تست	ntal	H.L.	
Signature	•										Date _				<u></u>
Submittal of H	ydraulic Fra	acturi	ng Chemical	Disclo	sure Info	rmation	A	ttach c	ору с	fFRACE	FOCUS	Regis	try		