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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 _ 107 _ 01750 County	Wood	District Steele	1
	_e Wade	Field/Pool Name Roo	ckport
Farm name Wade, Carl & Dianne		Well Number 12593	
Operator (as registered with the OOG) Columbia	Gas Transmission, LLC		
Address 1700 MacCorkle Ave SE	City Charleston	State WV	Zip 25325-1273
Top hole Northing 39.00 Landing Point of Curve Northing N/A -	not horizontal	Easting -81.551475 / 452,287 Easting N/A - not horizontal	
Bottom Hole Northing 39.06	4096 / 4,324,033.2	Easting81.549699 / 452,443	.4
Elevation (ft) 1061 GL Type of	of Well BNew Existing	Type of Report	oInterim ≣ Final
Permit Type Deviated Horizontal	Horizontal 6A	al Depth Type	■ Deep □ Shallow
Type of Operation □ Convert □ Deepen ■ Deepen	rill 🗆 Plug Back 🗆 R	edrilling 🗆 Rework 1	■ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □ O	il Secondary Recovery	□ Solution Mining ■ Stor	age □ Other
Drilling Media Surface hole Air	□ Brine	ate hole ■ Air ■ Mud	□ Fresh Water □ Brine
Production: fresh water base w/ polymer + s			-
Date permit issued 7/29/14 Date drill Date completion activities began 11/17/14 Verbal plugging (Y/N) N Date permission	Date completion	Date drining co.	ased11/11/14 2/10/14 N/A
Please note: Operator is required to submit a pluggir	ng application within 5 days	of verbal permission to plu	g
Freshwater depth(s) ftnone encountered	Open mine(s) (Y/I	N) depths	N
Salt water depth(s) ft 2140 - 2270	Void(s) encounter	ed (Y/N) depths	N
Coal depth(s) ft none encountered	Cavern(s) encount	ered (Y/N) depths	N
s coal being mined in area (Y/N)N	Office of C		Reviewed by:
	JAN 1 2	2 2015	01/23/20

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Rev. 8/23/13 API 47- 107	_ 01750	Farm name V	Vade, Carl &	Dianne	Well 1	number_125	93
CASING	Hole C	asing	Ne	w or Grade	В	Basket	Did cement circulate (Y/ N) * Provide details below*
STRINGS Conductor	Size S				5 / 59 ppf	epth(s) none	Y
Surface) / 48 ppf	none	Y
Coal	17.5	13.373	0 10	11-40	77 40 pp.	none	•
Intermediate 1	12.25	9.625" 23	18' KB N	lew J-55	6 / 36 ppf	none	Υ
Intermediate 2	12.20	5.025	10 100	0.00	7 оо рр.		•
Intermediate 3						-	
Production	8.75	7" 570)9' KB N	lew N-80) / 23 ppf	None	N
Tubing	50				-		i
Packer type and d	epth set						
Comment Details	KB is 17 ft above GL.			-			
CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ²)	Cemer Top (M	
Conductor	Neat	34	15.6	1.18	42	100 (101	16
Surface	Class A	400	15.6	1.19	476	0	10
Coal						1	
Intermediate 1	65-35 Poz / Class A	600 / 160	13.1 / 15.6	1.71 / 1.19	1026 / 190	0	12
Intermediate 2							
Intermediate 3						<u> </u>	
Production	Class A	160	15.6	1.21	194	4590	36
Tubing						1	
Drillers TD (ft Deepest forma Plug back pro	tion penetrated Helde	erberg dolomite		ggers TD (ft) 58 g back to (ft) N			
Kick off depth Check all wire		-		deviated/direct gamma ray		duction mperature	□sonic
Well cored	Yes • No	Conventional	Sidewall	W	Vere cuttings	collected =	Yes D No
13.375° csg: four bow-spr			JSED FOR EA	CH CASING S	TRING		-
	oring on jts 1, 10, 20, 30, 40, ar on jts 1, 2, 3, 4, 5, and 6 - six l		2 13 and 14				
. vog. oix opres Hgid	ا Anger در	онторин у оп ја 7, 0, 10, 1	e, 13, a10 14.				
WAS WELL O	COMPLETED AS S	HOT HOLE -	Yes A No	DETAILS			· · · · · · · · · · · · · · · · · · ·
WAS WELL C	COMPLETED OPER	N HOLE?	es 🗆 No	DETAILS 6.	125" ๒๓๔๘๖ สากา	CEIVED	Gas
WERE TRAC	FRS USED IT Ves	■ No TV	PE OF TRACE	P(S) USED	JA	N 1 2 2015)

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API 4	₁₇₋ <u>107</u> ₋ <u>01750</u>	Farm na	_{me} Wade, Carl	& Dianne	Well number_12593	
			PERFORAT	ION RECORD		
Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)	ļ
		N/A	N/A			i
_						
			_			
					-	
						:
				_		
						- †

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	12/8/14	20	3200	2600	3680	29700	638	239 MSCF N2

Please insert additional pages as applicable.

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API 47- 107	01750	Fa	_{name} Wade, 0	Carl & Dian	ne	Wall :	numher	12593	3		
API 4/- 101		ramı	name			w cm	iluilibei_				
PRODUCING I	FORMATION((S)	<u>DEPTHS</u>								
Oriskany Sands			5323 - 5370	TVD !	5741 - 5788	MD					
Oliskany Sands			3323 - 3370	_TVD _	3141-0100	MID					
		 -									
	disi 1				, , , , , , , , , , , , , , , , , , , 						
Please insert ad	ditional pages a	as applicable.									
GAS TEST	🗆 Build up 🛚 🗈	□ Drawdown	■ Open Flow	C	DIL TEST 🗆	Flow c	Pump			į	
SHUT-IN PRE	SSURE Sur	face 1050	_psi Botto	m Hole	psi	DURA:	TION O	F TES	т	hrs	•
OPEN FLOW	Gas 7,000 mc	Oil fpd	NGL bpd		Water bpd		MEASU.			⊐ Pilot	
LITHOLOGY/	TOP	BOTTOM	TOP	BOTTOM							
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN F					-	i	
a ilitata na	NAME TVD	TVD 46	MD	MD 46	TYPE OF FI	LUID (FRE			NE, OIL,	GAS, H ₂ S, ETC)	7
siltstone sand	0 46	476	46	476				none none			┨
shale, sand, siltstone	476	1972	476	1972	- R	ed Rock 12			S - 1586'	No Fluid	1
Salt Sand	1972	2270	1972	2270	100	SG TOOK 12		t water	3 - 1300,	140 Flaid	1
Pocono shale	2270	2614	2270	2616				one			
Coffee / Sunbury shale	2614	2632	2616	2634				one			1
Berea horizon	2632	2634	2634	2636				none			1
Devonian shale	2634	5192	2636	5610			n	one			1
Marcellus shale	5192	5204	5610	5622			r	none]
Onondaga limestone	5204	5323	5622	5741			r	оле			
Oriskany sandstone	5323	5342	5741	5760			upper, s	torage	gas]
Oriskany sandstone	5342	5370	5760	5788			lower, s	torage		Receiv	
lelderberg limestone	5370	5451	5788	5870			r	none		Office of O	18
TD		5451		5870							
Please insert ad	ditional pages a	as applicable.								JAN 1 2	2015
Drilling Contract	ctor Yost Drillin	g, LLC									
Address 313 Ste	ele Hill Road		City	Mt. Morris		State	PA	_ Zip	15349		
I anning Comm	Raker Atlas	: Logging									
Logging Compa Address W Main	St		City	Buckhannon	1	State	wv	7:-	26201		
						State		_ Z ıp			
Cementing Con	npany Universa	Well Service /	Nabors								
Address Route 5	Hall Rd / 528 Ind	ustrial Park Rd	City	Buckhannon	/ Jane Lew	State	WV/W	<u>∨</u> Zip	26201 /	26378	
Stimulatina C	manı. Nahor	s Completion & I	Production								
Stimulating Cor Address 528 Ind	P	20mpionon a	City	Jane Lew		State	wv	7:-	26378		
Please insert ad		as applicable	City			Sidic		_ Z ıp			
		- appirouoio.									
Completed by	James Amos			<u>_</u>	Telephone	304-483	-0073				
Signature	Jan &		Title Si	Well Services	Engineer		Date _	2/-	22 [14	
							•	-12	/	· ·	



