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

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AUG 2 9 2017

WV Department of tion

			Environmental Protection
	county Jackson	District Ripley	
Quad Sandyville	ad Name Adkins	Field/Pool Name R	
Farm name Adkins, Jacob	·	Well Number 125	98
Operator (as registered with the OOG) Col	umbia Gas Transmission, LL	C	
Address PO Box 1273	City Charleston	State WV	Zip 25314
	uttach an as-drilled plat, profile vi	ew, and deviation survey Easting 438548.9 m	
Landing Point of Curve Northi	ng N/A	Easting N/A	
Bottom Hole Northi	ng 4302494.8 m	Easting 438141.2 m	
Elevation (ft) 755 GL	Type of Well BNew - Existi	ng Type of Report	□Interim #Final
Permit Type Deviated Horizon	tal 🗆 Horizontal 6A 🗅 Ver	tical Depth Type	■ Deep □ Shallow
Type of Operation □ Convert □ Deepen	Drill 🗅 Plug Back 🙃	Redrilling 🗆 Rework	■ Stimulate
Well Type □ Brine Disposal □ CBM ■ C	as 🗆 Oil 🗆 Secondary Recover	y □ Solution Mining ■ St	orage 🗆 Other
Time of Completion & Single - Multiple	Eluida Deadusad — Deisa	#C NCI - 01	■ Other storage
Type of Completion ■ Single □ Multiple Drilled with □ Cable ■ Rotary	Fluids Produced Brine	■Gas □ NGL □ Oil	Other otologo
Diffict with a Cable a Rotaly			
Drilling Media Surface hole ■ Air □ M	fud □Fresh Water Interme	ediate hole 🖪 Air 🗂 Mud	□ Fresh Water □ Brine
	ı Water ■ Brine		
Mud Type(s) and Additive(s)	- w - w - w - w - w - w - w - w - w - w		
fresh water based w/ NaCl, KCl, polyr	ner, starch, biocide, pH cont	rol, etc.	
Date permit issued 3/2/17	6/2	20/17 Date drilling	7/11/17
E	147147	Date drining	
	Date completi	on activities ceased	8/10/17
Verbal plugging (Y/N) N/A Date p	ermission granted	Granted by	
Please note: Operator is required to submit a	plugging application within 5 da	ys of verbal permission to p	lug
Freshwater depth(s) ft none	Onen mine(s) (Y/N) depths	N
Salt water depth(s) ft 657 (dam	Open mine(s) (itered (Y/N) depths	
Coal depth(s) ft none		• • •	N
coal depth(s) it	N Cavern(s) enco	untered (Y/N) depths	
Is coal being mined in area (Y/N)	APPRO	IVED	Reviewed by:
•	NAME: Finile	Storens	11/10/2017
	4000	10011	11,
	DATE: 10/20		

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Rev.	8/23/13

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ΔPI	47-	035		03026
α	7/-		_	

Farm name_Adkins, Jacob

_Well number_12598

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7/20/17	5384	5398	84	Oriskany
				H-T -	
				1	

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	8/3/17	16	4000	3800	4310	25200	430	239 MSCF
200								
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Please insert additional pages as applicable.

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WV Department of Environmental Protection

NAME: DATE:

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API 47- 035	03026	Farn	name Adkins,	Jacob		Well r	number	12598	
PRODUCING	FORMATIO		DEPTHS						
Day & Townson			A. T.		E292	4.00			
Oriskany (natur	rai gas storage	9)	4863	TVD	5383	MD			
				_					
Please insert ac	dditional page	es as applicable.							
GAS TEST			■ Open Flow		OIL TEST _ F	Flow =	Pump		
SHUT-IN PRE	SSURE S	urface 1262	psi Botto	m Hole	psi	DURAT	TION C	F TEST	0.75 hrs
OPEN FLOW	Gas 5100 r	Oil mcfpd	bpdNGL	bpd _	Water bpd	20,000,000		RED BY	□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN F		TOP T DEPTH IN FT MD	BOTTOM DEPTH IN F MD	T DESCRIBE			A STANDARD OF THE	JANTITYAND OIL, GAS, H≥S, ETC)
	0		0		100				
Salt Sand			1801	1909					
Big Injun			1927	2060					
Berea			2431	2438					
Marcellus			5270	5281					
Onondaga			5281	5383	_		-1-		
Oriskany Helderberg			5383 5418	5418 5505	_		Stor	rage gas	
neidelberg	-		3416	5505	-				DEOGNACE
									Office of Oil and G
									AUG 2 9 2017
Dlanca incart no	dditional page	es as applicable.						- E	WV Department o
								7	
Drilling Contra Address 313 St		lling, LLC	City	Mt. Morris		State	PA	Zip _153	349
Logging Comp	any Baker Hi	ughes							
Address 106 Isl			City	Buckhannor	n	_ State	WV	Zip _262	201
Cementing Co	mpany C&J E	nergy Services					140/	200	170
Address 1650 F	nackers Creek h	(a	City	Jane Lew		State	WV	Zip _263	576
Stimulating Co		ance Well Servic							
Address 1250 T			City	Erie		State	PA	Zip 165	505
Please insert ac	dditional page	es as applicable.							
Completed by	James Amos	5			Telephone	304-483	-0073		
Signature	-gin	Elm	Title S	r WET Engine	er		Date 8	/28/17	_
Submittal of H	ydraulic Frac	turing Chemical	Disclosure Info	rmation	Attach copy of	FRACE	ocus	Registry	

