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

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Office of Oil and Gas

JUL 26 2021

020 0222.00.00 Kanau	,ha	EIL	WV Department of Environmental Protection
API 47 - 039 - 03212-00-00 County Kanaw		trict Elk	Coco A
Quad Blue Creek, WV Pad Name		ld/Pool Name	
Farm name Brown, James F. III	W	ell Number 12	1114
Operator (as registered with the OOG) Columbia Gas Tr	ansmission, LLC		
Address 1700 MacCorkle Ave. S.E., P.O. Box 1273 City Ch	iarleston	State WV	Zip 25325
As Drilled location NAD 83/UTM Attach an as-dril Top hole Northing 4250093.961 Landing Point of Curve Northing N/A Bottom Hole Northing Not measured	Easting	464242.275	ertical wellbore)
600 El	□New ■ Existing		rt □Interim ■Final
Permit Type Deviated Horizontal Horizontal	ntal 6A 📕 Vertical	Depth Type	■ Deep □ Shallo
Type of Operation Convert Deepen Drill	□ Plug Back □ Redrilling	g 📕 Rework	■ Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil □ Se	condary Recovery	on Mining	Storage Other
Type of Completion ■ Single □ Multiple Fluids Production Drilled with □ Cable ■ Rotary Drilling Media Surface hole □ Air □ Mud □ Fresh Water □ Bring Mud Type(s) and Additive(s)	ater Intermediate hole	NGL □ Oil	□ Otherad □ Fresh Water □ Brin
Date permit issued 3/29/2021 Date drilling compate completion activities began 6/7/2021 Verbal plugging (Y/N) N/A Date permission grante	Date completion activitie	Granted by	7/1/2021
Please note: Operator is required to submit a plugging applic	•		-
Freshwater depth(s) ft 90', as reported by the Driller.	Open mine(s) (Y/N) depth		N
Salt water depth(s) ft None as reported by the Driller.	Void(s) encountered (Y/N		
Coal depth(s) ft 90'-95', as reported by the Driller.	Cavern(s) encountered (Y/	N) depths	N
Is coal being mined in area (Y/N)N			Paviawad by

API 47- 039	03212-00-00	Farm nar	_{ne_} Brown, Ja	mes F. II	1	Well 1	number_1211	14
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Gтade wt/ft		asket epth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor								
Surface		13-3/8"	118'			16		Υ
Coal								
Intermediate 1		9-5/8"	1720'		3	32		Υ
Intermediate 2		7"	4958'		2	23		N
Intermediate 3								
Production								
Tubing								
Packer type and de	epth set	W-			1			
Comment Details	2-3/8" tubing was re	moved during workover	operations. 4-1/2" cas	sing was not ins	stalled.			
CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)		Yield t ³ /sks)	Volume (ਜੈ ³)	Cement Top (MD	
Conductor			SER 69			with the sale		NII.
Surface		150 sx.						
Coal								
ntermediate 1		600 sx.						
ntermediate 2		200 sx.						
ntermediate 3								
roduction								
ubing								
-	5030' cedure				D (ft)			Office of Oil and Gas
lick off depth	(ft)						Er	WV Department of nvironmental Protection
Check all wirel	ine logs run	_	☐ density☐ resistivity		ed/direction ray		uction	□sonic
Vell cored □	Yes 🖪 No	Conventiona	al Sidewa	11	Wei	re cuttings co	ollected 🗆 Y	es No
						_		
ESCRIBE TH	IE CENTRALIZ	ER PLACEMEN	T USED FOR	EACH CA	SING STI	RING		
AS WELL CO	OMPLETED AS	S SHOT HOLE	□ Yes 🛔 N	lo DE	TAILS _			
AS WELL CO	OMPLETED OF	PEN HOLE?	Yes 🗆 No	DETA	AILS		-/	
ERE TRACE	RS USED 🗆 Y	es 🖪 No	TYPE OF TRA	ACER(S) U	SED			

API 47- 039 - 03212-00-00

Farm name_Brown, James F. III

_Well number_12114

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					1 officers by
-					
-					
-					
1 1					
-					
					
					DECEMEN

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

WV Department of Environmental Protection

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)
	6/24/21							100000 SCF
	6/24/21							24 bbis HCI
	6/24/21						25 bbls	
-								

Please insert additional pages as applicable.

API 47- 039	03212-	00-00	Farm	name Brown,	James F.	101	Wel	1 number 121	14
PRODUCING	FORMATI	ON(S)		DEPTHS					
Oriskany				5107'-5129'	TVD	5107'-512	9' 1.41	`	DECERTE
Ononary				0107 0120		3107-312	9' MI	Offi	RECEIVED ce of Oil and Gas
								J	UL 26 2021
-			99					W\ Enviro	/ Department of nmental Protection
Please insert ac	dditional pa	ges as appl	licable.						
GAS TEST	□ Build up	□ Drav	vdown	Open Flow		OIL TEST	□Flow	□ Pump	
SHUT-IN PRE	ESSURE	Surface 1	292	_psi Bott	om Hole	p	si DURA	ATION OF TE	ST 0.75 hrs
OPEN FLOW	Gas 21440	mcfpd _	Oil	NGL bpd	_ bpd	Water		MEASURED imated □ 0	
LITHOLOGY/	TOP	ВС	MOTTO	TOP	BOTTOM	1			
FORMATION	DEPTH IN	FT DEP	TH IN FT	DEPTH IN FT	DEPTH IN	FT DESCR	RIBE ROCK T	YPE AND RECO	RD QUANTITYAND
	NAME TV	7D '	TVD	MD	MD	TYPE	OF FLUID (FR	ESHWATER, BI	RINE, OIL, GAS, H ₂ S, ETC)
	0	_		0	.				
		-							
		_							
, and the second									
		-				-			
Please insert ad	l ditional pag	es as appli	cable.			1.1			
Drilling Contra	ctor								
Address				City			State	Zij)
Logging Compa Address 180 Chi				City	Buckhanno	n	State		26201
Cementing Con	npany								
Address				City	<u> </u>		State	Zip)
Stimulating Cor	_{nnany} Key	Energy							
Address Weathe				City	Buckhannoi	n	State	wv zir	26201
Please insert add									
Completed by	Brad Nelsor	1				Telenh	one 724-250	0-0610	
Signature Paul Nels Title Storage Engineer						Telephone 724-250-0610 Date 7/23/2021			
							277		