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

API <u>47</u> - 077 _ 00109 Cou	_{nty} Preston	District Portland			
	Name Terra Alta	Field/Pool Name Terra Alta			
Farm name Bernadette Cole, et al		Well Number7418			
Operator (as registered with the OOG) Colum	bia Gas Transmission LLC				
Address 1700 MacCorkle Ave SE	City Charleston	State WV	Zip 25314		
Top hole Northing Landing Point of Curve Northing Bottom Hole Northing	Not applicable I I ype of Well □New ■ Existing	Easting Easting Type of Report □Int			
Type of Operation □ Convert □ Deepen	□ Drill □ Plug Back □ Re	edrilling E Rework 🗆 St	timulate		
Well Type □ Brine Disposal □ CBM □ Gas	□ Oil □ Secondary Recovery □	☐ Solution Mining ■ Storage	□ Other		
Type of Completion ■ Single □ Multiple Drilled with □ Cable □ Rotary	Fluids Produced Brine G	as 🗆 NGL 🗆 Oil 🗆 Ot	her		
Drilling Media Surface hole □ Air □ Mud	□Fresh Water Intermedia	ıte hole □ Air □ Mud □ F	Fresh Water Brine		
Production hole	ater 🗆 Brine				
Mud Type(s) and Additive(s) Not applicable. Scope of work was to rework an ex-	kisting well - obtained cased hole lo	gs, replaced a wellhead valve, p	performed a coil tubing		
cleanout and acid stimulation.					
	drilling commencedN/A	Date drilling ceased	N/A		
Date completion activities beganN/	Date completion a		/A		
Verbal plugging (Y/N)N/A Date perm	ission grantedN/A	Granted by	N/A		
Please note: Operator is required to submit a plu	gging application within 5 days c	of verbal permission to plug			
Freshwater $depth(s)$ ft None reported by driller v	when drilled Open mine(s) (Y/N	() depths	N		
Salt water $depth(s)$ ft None reported by driller when the same states are the same states as the same states are the same states as the same states are the same sta			N		
Coal depth(s) ft None reported by driller wh	en drilled Cavern(s) encounte	ored (Y/N) GeptileD Office of Oil and Gas	N		
Is coal being mined in area (V/N)	N	Office of Oil and Gas			



MAY 26 2023

Reviewed by: How 15/2023 29/2013

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API 47- 077	_ 00109	Farm na	_{me_} Bernade	tte Cole, e	t al	Well ı	number_741	18	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket epth(s)		t circulate (Y/ N) details below*
Conductor		existing well							
Surface									
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production									
Tubing									
Packer type and d	epth set								
CEMENT	Class/Type	Number	Slurr		Yield	Volume	Сете	nt	WOC
DATA Conductor	of Cement	of Sacks	wt (pp	g) (f	t ³/sks)	<u>(ft.³)</u>	Top (M	ID)	(hrs)
Surface		existing we	ell						
Coal									
Intermediate 1							-		
Intermediate 2									
Intermediate 3						 ·			
Production									
Tubing									
Drillers TD (ft) Deepest format Plug back production	tion penetrated	Helderberg		Loggers T Plug back					
Kick off depth	(ft)_N/A		· · · · · · · · · · · · · · · · · · ·						
Check all wirel	line logs run	□ caliper □ neutron	□ density □ resistivity		ed/directio a ray		uction nperature	□sonic	
Well cored	Yes □ No	Convention	al Sidew	vall	We	re cuttings c	ollected 🗆	Yes □ 1	No
DESCRIBE TI	HE CENTRALI	ZER PLACEMEN	NT USED FOI	R EACH CA	ASING ST	RING NA			
WAS WELL C	OMPLETED A	AS SHOT HOLE	□ Yes □	No DE	ETAILS _	N/A	(RECEING OF OF	VED
WAS WELL C	OMPLETED (PEN HOLE?	⊐Yes □ No	DETA	AILS N/A			MAY 2 6	2023
WERE TRACE	ERS USED	Yes 🗆 No	TYPE OF TR	ACER(S) U	JSED		Env	WV Departr	nent or Protection

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Farm name_Bernadette Cole, et al

_Well number_7418

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	N/A	existing well			

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)
	N/A		existing well					
					-			
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						WIAT 2 6	2023	

Please insert additional pages as applicable.

WV Department of Environmental Protection

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PRODUCING	FORMATI	ION(S)		DEPTHS					
Chert					TVD	4816	MD		
Oriskany			_	4960	1VD	4960	IVID		
			_						
Please insert ac	lditional pa	ges as ap	— oplicable.						
GAS TEST	□ Build up	Dr	awdown	□ Open Flo	w	OIL TEST	Flow Pum	p	
SHUT-IN PRE	SSURE	Surface		psi Bo	ottom Hole_	psi	DURATION	OF TEST _	hrs
OPEN FLOW	Gas	mcfpd	Oil	bpd		Water bpd	GAS MEAS □ Estimated		□ Pilot
ITHOLOGY/ ORMATION	TOP DEPTH IN NAME TV	FT DI	BOTTOM EPTH IN FI TVD	TOP DEPTH IN F MD	BOTTO T DEPTH II MD	N FT DESCRIBE			ANTITYAND IL, GAS, H₂S, ETC)
existing well	0	VD	IVD		MID	TIPEOFF	LUID (FRESHWA	TER, DRINE, C	IL, GAS, H ₂ S, E1C)
					_				
									
			 _						
				1					
ease insert ad	l ditional pag	ges as an	plicable						
		•	F						
rilling Contra ddress 736 W				Cit	y Ingomar		State PA	Zip 1512	7-6613
					,y <u>goa.</u>		State ···	Zip <u>1012</u>	
ogging Compa		Atlas							
ddress PO Box	301057			Cit	y <u>Dallas</u>		State TX	Zip _7530	03-1057
ementing Con	npany Next	LVL							
ddress 736 W				Cit	y Ingomar		State PA	Zip 1512	7-6613
. 1 0	Gla	adiator E	norgy II C						
imulating Conductor ddress 3200 So			nergy LLC		v Houston	_	CACA- TY	Zip 7702	7-7528
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			piioaoic.						RECEIVED
ompleted by	Maria Medy	/edeva				_ Telephone	304-410-4313		Office of Oil and
gnature/	(11/1 11/2 1 /1 /1	1 A 1 A	- 1	Tista	Senior Wells I	Engineer STS	D . 1	05/24/23	-



May 25, 2023

WV DEP – Office of Oil & Gas 601 57th Street, SE Charleston, WV 25304-2345

Enclosed is the post well work permit application for the following Columbia Gas Transmission existing storage well:

Terra Alta 7418 (API 47-077-00109)

If you have questions, feel free to call.

Regards,

Maria Medvedeva Senior Wells Engineer

Well Engineering & Technology Columbia Gas Transmission, LLC

Mob: 304-410-4313

maria medvedeva@tcenergy.com

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MAY 26 2023

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