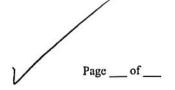
WR-35 Rev. 8/23/13



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

API 47 - 051 - 00479 County Marsha	II	District Liberty	
Quad Cameron, WV Pad Name		Field/Pool Name Vict	ory B Storage
Farm name Walton, Margaret		Well Number 4731	
Operator (as registered with the OOG) Columbia Gas Tra	nsmission, LLC		
Address 1700 MacCorkle Ave SE City Cha		State WV	Zip 25325-1273
Top hole Northing 4401771.44 Landing Point of Curve Northing Northing Bottom Hole Northing Elevation (ft) 1341.0 GL Type of Well Permit Type Deviated Horizontal Horizontal Type of Operation Convert Deepen Drill Well Type Brine Disposal CBM Gas Oil Sec	DNew Existing Ital 6A Vertical Plug Back Recovery	asting 532901.25 asting Type of Report Depth Type Depth Type Depth Type Solution Mining Stora	Deep Shallow Stimulate
Type of Completion Single Multiple Fluids Produ Drilled with Cable Rotary Drilling Media Surface hole Air Mud Fresh Wa Production hole Air Mud Fresh Water Bring Mud Type(s) and Additive(s)	ter Intermediat	a bala III Air II Mud	
N/A - well not drilled deeper during rework			7105 8 0 NAL
Date permit issued5/12/16 Date drilling common	nenceda Date <u>rework/stim</u> a	Date drilling cer ctivities ceased Environments	Department of Department of Protection
Please note: Operator is required to submit a plugging application	ation within 5 days o	f verbal permission to plus	95
Freshwater depth(s) ft	Open mine(s) (Y/N) depths	
Salt water depth(s) ft		d (Y/N) depths	
Coal depth(s) ft	Cavern(s) encounter	red (Y/N) depths	
(s coal being mined in area (Y/N)		THE STATE	Reviewed by:

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API 47- 051	_ 00479	Farm nam	e_Walton, M	largaret		Well nu	4731 mber	<u> </u>
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Bas Dep	ket th(s)	Did cement circulate (Y/N) • Provide details below*
Conductor								
Surface								
Coal								
Intermediate I								
Intermediate 2							-	
Intermediate 3				-	-			
Production					-			
Tubing		-			 			
Packer type and de	enth set				<u> </u>			
CEMENT	Class/Type	ras altered and no addition	Slurry		ŕield	Volume	Cemen	
DATA Conductor	of Cement	of Sacks	wt (ppg	(A	³ /sks)	(ft. ² .)	Top (MD)) (hrs)
Surface								
Coal								
								
Intermediate 1								
Intermediate 2								
Intermediate 3	_							
Production								
Tubing								
Drillers TD (ft)			Loggers T	D (A)			
				Plug back				
Plug back pro					()			
•	during permitted well	wark.						
Kick off depth	(ft)							-
Check all wireline logs run								
Well cored	Yes B No	 Convention 	al 🛭 Sidew	all	We	re cuttings co	llected a	Yes 🗆 No
DESCRIBE T	HE CENTRALI	ZER PLACEMEN	IT USED FOR	R EACH CA	ASING ST	RING		
							- P	
		 -				RIP.	PIVED	. 385
WAS WELL C	COMPLETED A	S SHOT HOLE	o Yes ∄ ì	No DI	ETAILS _	Office (W (A)	.}
WAS WELL O	COMPLETED O	PEN HOLE?	9 Yes □ No	DET	AILS			Protection
							mental	Ploma.
WERE TRACE	ERS USED o	Yes B No	TYPE OF TR	ACER(S)	JSED	Environ	111100	

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API 47- 051 - 00479	Farm name Walton, Margaret	4731 Well number	

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
				<u> </u>	
		· · · · · · · · · · · · · · · · · · ·			

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 (bbis)	Amount of Nitrogen/other (units)
1	11/17/16	0.1	0	N/A	N/A	0	64	5 bbls acid
	i - i			 - 				
	 			 		 		
 	 			+				
	-			 		 		
-								
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 	 			+ +	<u>. </u>	Office	CENE) • Cas
				JI		<u> "</u>	- nil an	Q (2pp
Please	insert addition	nal nages as a	nnlicable			Office	OI OII .	
1 10036	anditto	ner habes as al	ppiicauie.			_	0.01	147

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WV Department of Environmental Protection 01/05/2018

API 47- 051	_ 00479	Farm	name Walton, M	argaret		Well	number 4731	
			***- 12 **					
PRODUCING	FORMATION(<u>s)</u> _	<u>DEPTHS</u>					
Big Injun (stora	ge)			_TVD	2156 - 2276	MD	•	
	······································							
Please insert ad	lditional pages a	s applicable.						
GAS TEST	□ Build up □	Drawdown	a Open Flow		OIL TEST a	Flow	□ Pump	
SHUT-IN PRE	SSURE Surf	ace 752	_psi Botto	m Hole	psi	DURA	TION OF TEST	0.75 hrs
OPEN FLOW	Gas 15500 mcf	Oil pdl	NGL opd	bpd _	Water bpd		MEASURED BY	
imum surface						choke]	
LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTOM DEPTH IN		ይያ ኒ ያነው :ሞ፡-	TE AND RECORD	MEANTITY AND
FORMATION	NAME TVD	TVD	MD	MD				QOANTTI TAND E, OIL, GAS, H <u>:S. ET</u>
	0		0			•		
							-	
	l					 -	· · · · · · · · · · · · · · · · · · ·	
Please insert ad	ditional pages a	s applicable.						
Drilling Contra	ctor							
Address			City			State	Zip _	
	any Baker Atlas							
Address 106 ISE	and Ave		City	Buckhanno	<u>n</u>	State	W Zip 2	6201
Cementing Cor	npany		 _					
Address			City			State	Zip _	
Address Hall Ro			City	Buckhanno	n	_ State	<u>wv Zip 2</u>	6201
Please insert ad	ditional pages a	s applicable.					WED	
Completed_by	Jim Amos	\sim			Telephone	304-48.	3-DOMENT COLOR	Gas
Signature		lin	Title Se	enior Engine	r	Oulee	Date 1/5/17 JAN 0 9 2017	
Submitted of 25	/draulic Fractur	ina Chamiaal I	Nicolocum Info	matica	Attach		TAN O & COL	_
Jaounnalle Ti	raidune Fractur	mg Chemical L	visciosufe intol	เหลนเงแ	лиасп сору о	i rkac	rocus kegisiry	t Of
						M,	v Departme onmental P	lofection,
						Envir	OULLIE	01/

01/05/2018

Victory B 4731 (API 051-00479) Work Performed Performed CTCO and acid treatment.

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Office of Oil and Gas

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WV Department of Environmental Protection

01/05/2018

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State of West Virginia

Department of Environmental Protection - Office of Oil and Gas Discharge Monitoring Report

Oil and Gas General Permit

Company Name:	Columbi	a Gas Transmission	, LLC			
API No:	47-051-0	00479		County:	Mars	hall
District:	Liberty			Well No:	4731	
Farm Name:	Walton,	Margaret				
Discharge Date/s I	From:(M	IMDDYY) N/A - 1	no pit	To: (MMI	DDYY	N/A - no pit
Discharge Times.	From:	N/A - no pit		To: N/A	no pit	
Total Volume to b	e Dispos	sed from this facil	lity (gallons):	4200		201
Disposal Option(s)) Utilize	d (write volumes i	in gallons):	1		-20
(1) Land Applica	tion:		(Includ	e a topograpł	nical n	nap of the Area.)
(2) UIC:			Permit	No.		
(3) Offsite Dispos	sal:		Site Lo	cation:		
(4) Reuse:			Alterne	ate Permit Nu	mber:	
(5) Centralized Fa	acility:		Permit			
(6) Other method	:	4200	(Includ	e an explanat	tion)	Appalachian Water Service
Follow Instruction			treatment catego	ory:	18	Station W1 Ronco WTP Permit: 2608201
		t: Cl-		DO mg/		Masontown, PA
		ion to use expedite				
(Y/N)		If yes, who?		anc	l place	e a four (4) on line 7.
If not go to li				10	12	. U 5 IC
line 3.	nd or fic	wback put into th	e pit? (Y/N)	If yes	s, go t	o line 5. If not, go to
	a chlorie	de value pretreatm	ent (see above)?	(V/N)		If yes, go to line 4
If not, go to l		de varde pretreatif	iem (see above).	(1/11)		if yes, go to fine 4
		less than 5000 mg	/l? (Y/N)	If ves. t	hen en	nter a one (1) on line 7.
		atment value for D				(8.75)
If not, enter a	-			-		
6. Is the DO lev	el greate	er than 2.5 mg/l?(Y/N)	If yes, e	enter a	two (2) on line 7. If
not, enter a th						
		ory of your pit. U	se the Appropria	te section.		
8. Comments	on Pit c	ondition:				
Name of Princip	al Evec	. Officer: James	F Amos			
Title of Officer:		nior Well Services Eng				
Date Completed		000 a				
		lty of law that I	have personally	examined an	d am	familiar with the
		on this document a				
of those individ	luals im	mediately respons	sible for obtaining	g the inform	atiqw!	Ebelieve that the
information is to	rue, acci	urate, and complet	te. I am aware the	nat there are	ignife	cant penalties for
submitting false	informa	ation, including th	e possibility of fi			
(1	5/1		111	0 0 V	7011

Signature of a Principal Exec. Officer or Authorized agent tment of WV Department of Environmental Protection 1/05/2018

WR-34	
Page 2 of 3	
~	
Category 1	
Sampling Results	
API No:	

	Predischarge		Disc	harge	
Parameter	Limits	Reported	Limits	Reported	Units
pН	6-10		6-10		S.U
Settling Time	5		N/A	N/A	Days
Fe	6		6		mg/l
D.O.	2.5		2.5		mg/l
Settleable Sol.	0.5		0.5		mg/l
Cl	5,000		5,000		mg/l
Oil	Trace		Trace		Obs.
TOC**			Monitor		mg/l
Oil and Grease			Monitor		mg/l
Total Al***			Monitor		mg/l
TSS			Monitor		mg/l
Total Mn	Monitor		Monitor		mg/l
Volume			Monitor		Gal
Flow			Monitor		Gal/min
Disposal Area			Monitor		Acres

*** Al is only reported if the pH is above 9.0

Category 2	
Sampling Results	
API No:	

	Predia	scharge	Disc		
Parameter	Limits	Reported	Limits	Reported	Units
pН	6-10		6-10		S.U
Settling Time	10		N/A	N/A	Days
Fe	6	_	6		mg/l
D.O.	2.5		2.5		mg/l
Settleable Sol.	0.5		0.5		mg/l
CI*	12,500		12,500		mg/l
Oil	Trace		Trace		Obs.
TOC**			Monitor		mg/l
Oil and Grease			Monitor		mg/l
Total Al***			Monitor		mg/l
TSS			Monitor		mg/l
Total Mn	Monitor		Monitor		mg/l
Volume			Monitor		Gal
Flow			Monitor		Gal/min
Disposal Area			Monitor		Acres

^{*} Can be 25,000 with inspector's approval,

		RECEIVED
(Inspector's signature):		
** Include a description of your aeration technique.	Aeration	Office of Oil arid

*** Al is only reported if the pH is above 9.0

JAN 0 9 2017

WV Department of Environmental Protection 2018

WR-34 Page 3 of 3 Category 3 Sampling Results API No: Predischarge Discharge Reported Units **Parameter** Limits Reported Limits pН 6-10 6-10 S.U **Settling Time** N/A 20 N/A Days Fe 6 6 mg/l D.O. 2.5 2.5 mg/l Settleable Sol. 0.5 0.5 mg/l Cl* 12,500 12,500 mg/l Oil Trace Тгасе Obs. TOC** Monitor mg/l Oil and Grease Monitor mg/l Total Al*** **Monitor** mg/l **TSS** Monitor mg/l Total Mn Monitor Monitor mg/l Volume **Monitor** Gal Flow Gal/min Monitor Disposal Area Monitor Acres * Can be 25,000 with inspector's approval, (Inspector's signature): Date: ** Include a description of your aeration technique. Aeration Code: *** Al is only reported if the pH is above 9.0. Category 4 Sampling Results API No: Predischarge Discharge Parameter Limits Reported Limits Units Reported pН 6-10 6-10 S.U **Settling Time** 1 N/A N/A Days Fe Monitor Monitor mg/l D.O. Monitor Monitor mg/l Settleable Sol. Monitor Monitor mg/l CI* 12,500 12,500 mg/l Oil Trace Trace Obs. TOC** Monitor mg/l Oil and Grease Monitor mg/l RECEIMED TSS Monitor Office of Ollmand Gas Total Mn Monitor Monitor Volume Monitor JAN Gagrann? Flow Monitor

MA Delightenent of Environmental Protection Disposal Area Monitor * Can be 25,000 with inspector's approval, (Inspector's signature): Date:

N/A

N/A

N/A

lb/Bl

Activated Carbon (0.175)

N/A

Date Site Reclaimed



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax

Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

May 12, 2016

WELL WORK PERMIT Re-Work

This permit, API Well Number: 47-5100479, issued to COLUMBIA GAS TRANSMISSION, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: 4731

Farm Name: WALTON, MARGARET

API Well Number: 47-5100479

Permit Type: Re-Work Date Issued: 05/12/2016

Promoting a healthy environment.

Office of Oil and Gas JAN 0 9 2017

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WV Department of Environmental Protection

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.