

west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Thursday, January 12, 2023 WELL WORK PLUGGING PERMIT Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC 1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re:

Permit approval for COCO C 12438

47-039-06116-00-00

This well work permit 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 any additional specific 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of 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.

Per 35 CSR 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) 926-0450.

James A. Marti

Chief

Operator's Well Number: COCO C 12438

Farm Name: BROWN, JAMES F., III - ESOH

U.S. WELL NUMBER: 47-039-06116-00-00

Vertical Plugging

Date Issued: 1/12/2023



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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. 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.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date	10.0	U,	20 22
2) Operat	or's		
Well N	Io . Coco C	12438	
3) APT We	11 No.	47 - 039	- 06116

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

	APPLICATION FOR A PERM	IIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X/ Liquid	d injection/ Waste disposal/
	(If "Gas, Production or Und	derground storage X) Deep X / Shallow
5)	Location: Elevation 1152	Watershed Rich Creek or Elk River
3)	District Big Sandy	County Kanawha Quadrangle Blue Creek, WV
	Discrise	
6)	Well Operator Columbia Gas Transmission LLC	7) Designated Agent Maria Medvedeva
0 /	Address 1700 MacCorklle SE	Address 1700 MacCorklle SE
	Charleston, WV 25314	Charleston, WV 25314
		O) Diversing Contractor
8)	Oil and Gas Inspector to be notified Name Terry Urban	Name Next Lvl Energy, LLC
	Address P.O. Box 1207	Address 736 W Ingomar Rd, Units 268
	Clendenin, WV 25045	Ingomar, PA 15127-6613
:	1) Well job plan. 2) Prior to P&A wellbore schematic. 3) Proposed P&A wellbore schematic.	MV 18 2022 WV Department of Environmental Protection
Noti	fication must be given to the district oi	il and gas inspector 24 hours before permitted
work	can commence.	7

WELL JOB PLAN		STS Well	Engineering &	Technology			PAGE 1 DAT	E JOB PREPARED:	9/12/2022
Objective: Plug and At							A CONTRACTOR OF THE PARTY OF TH	ST PROFILE UPDATE:	
TITLE: Plug and A							WORK TYPE:		
FIELD: Coco C	todridori		WELL ID	12438			LEASE#		
STATE: WV			SHL (Lat/ Long			-81.398112	API:		
DIST/TWP: Big Sandy			BHL (Lat/Long	38.448838		-81.398112	CNTY WELLLINE #		
EXISTING TUBULAR	OD	WEIGHT		-		H GL (ft) BOTTOM		er to MISC INFORMATI	ON section
CONFIGURATION	(inches)	(PPF)	GRADE	THREAD	TOP 0	30	PAY:	ELEVA	
Conductor	16 11 3/4	42.0 42.0	B-35 H-40	8rd NUE	0	424	TD: 5664	TMG:	
Surface Intermediate	8 5/8	32.0	J-55	8rd LTC	0 *	2435	PBTD:	KB-RF:	
Production	5 1/2	17.0	I-80 ERW	8rd LTC	0	5531	KB-GL:	GL:	
Tubing	2 3/8	47	J-55	8rd EUE	0	5536**	CSG DEP	TH WELLBORE	SCHEMATIC
		* top j	oint replaced for in	tegrity issues i	in 2009 & 2011	, weld on bell nipple	e	Defeate "Mellho	ro Diagram" tah
						after 2011 workove		Refer to "Wellbo	re Diagram tab
Perforations		Dalla f		Ilbore Diagram	m" tab		-		
Perforations	No perforation	ons. Delta fi	rac'ed with nitroge x 8-5/8" support,	2 3/8" 8 rnd Fl	LIE connection		-		
Wellhead D.H. EQUIPMENT	API 5K, 5-1/2	2 HOWSUING	X 6-3/6 Support,	TYPE	OE connection	DEPTH (ft)			
	CKER INFO:	Upper							
	ONEN III. O.	Lower							
NIPPLE PR	OFILE INFO:	Upper					1		
		Lower					4		
							4		
CEMENT INFO	SSSV INFO:					TOC (ft)	+		
16 Sanded in						100 (11)	1		
	75 sxs to surfa	ace				0	1		
Cemented w	vith 500 sxs. 1	5 bbls retur	ned to surface . Re	eplaced top 11	9' of csg. Free	Anna Alba	1		
8 5/8 at 228' per c				Enter a casa a care a		228			
5 1/2 Cemented w						4486 CBL			
2 3/8 Not cemente	ed								
MISC INFORMATION					A STREET, ST		4		
Kill Fluid Calculation Maximum calculated b	ottom-hole pre	sprea	* Note that kill fluid eference only):	calculation tabs		(see	_		
Maximum storage field Well TD: Top of the Oriskany: Calculated maximum E	•	•		5664 ft 5567 ft	t TVD * input t TVD * input esig * output	Kill Fluid (TOZ)			
Kill fluid density at top	of zone @:	250	psi OB		, ,	Kill Fluid (TOZ)			
Top of Marcellus: Calculated maximum E Kill fluid density at dep	th of BP @:	250	psi OB	2070 P		t Kill Fluid (BP) t Kill Fluid (BP)			
Red	quired minim	um kill fluid	d density:	8.3 p	ppg * greate	er of the two			
12 (1.0020	- 1		MOFID						
Current AOF	Managaran.		MCF/D MCF/D						
Top historica Last MVRT:		None avail					┥		
Last WIVINI.		. Tone avail							
SBT:		10.12.08 S	BT log showed 5-	1/2" cement to	p at 4486'.		1		
PROPOSED YEAR:	20)23	ERCB PERMIT DT. APPLIED:	REQD:	YES ISSUED:	NO_X_	(Internal) PDS Required	: YES NO	
PREPARED BY:	Maria Me	edvedeva	REVIEWED BY:		James A	mos	APPROVED:	Brent Crise	ı
PREP DATE:	9/12/	/2022							

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NOV 18 2022

WELL JOB PLAN	STS Well Engineering	ell Engineering & Technology		PAGE 2 DATE JOB PREP.		9/12/2022
Objective: Plug and Abandon TITLE: Plug and Abandon				WORK TYPE:	GPMC	
FIELD: Coco C	WELL:	12438				
STAT: WV	SHL (Lat/Long):	38.448838	-81.398112	API:	47-039-06116	
TWP: Big Sandy	BHL (Lat/Long):	38.448838	-81.398112	CNTY:	Kanawha	

10/2021 gas bubbling was reported around wellhead, gas samples indicated native gas. 5-1/2 x 8-5/8" annulus killed with 8.3 ppg 6% bentonite gel (21 lb gel/bbl) fluid with corrosion inhibitor, biocide, and soda ash. Hydrates observed at 129', pumped methanol. NOTE: Cement used will be API Class A, slurry weight 15.6ppg, slurry yield 1.18 cuft/sk or API Class L, slurry weight 15.6ppg, slurry yield 1.14 cuft/sk, as per the approved WVDEP Variance Order No.2022-13. All spacers will be 6% Bentonite gel.

- Obtain State well work permit, EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
- 2 Notify landowner.
- 3 Obtain General Work Permit and Wellsite Review & Turnover Form from Operations.
- 4 Notify Reservoir Engineering & Geosciences (REG) of intent to take well out of service.
- Notify environmental inspector prior to beginning work. If required, notify State/Federal regulatory agencies prior to beginning work.
- 6 Disconnect well line.
- 7 Prepare access road and well site. Install ECD's per EM&CP.
- 8 Service all serviceable wellhead valves
- 9 Document and report to WE&T the initial casing and annular pressures.
- 10 Blow down all annuli, replace fittings as needed, and leave annuli open to atmosphere for monitoring
- 11 Load / top 5-1/2" x 8-5/8", 8-5/8" x 11-3/4" annuli with kill fluid. Document volumes. Top off remaning annuli with FW. Document volumes.
- 12 Kill well with minimum 8.3 ppg viscosified fluid. After well is dead spot 10 bbls LCM pill on bottom.
- 13 Dig around base of wellhead to uncover casing tops and remove cement if present.
- 14 MIRU service rig.
- 15 Remove wellhead equipment down to the tubing spool.
- 16 Screw in 2-3/8" nipple with full port valve into top of hanger.
- 17 Strip over and NU 7-1/16" Cameron 5K BOPE (blind / shear + pipe + anular). Will need kill and choke outlets below blind / shear.
- 18 Function and pressure test BOPE to low (250 psig) and high (2500 psig).
- 19 Unseat hanger, PU and remove hanger, wash to TD.
- 20 If able to wash to TD then install balanced cement plug from TD to 4500'.
- 21 If not able to wash to TD round trip to PU 2-3/8" DP with cut-lip shoe and install balanced cement plug from TD to 4500
- 22 PU above cement top, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC a minimum of 8 hrs.
- 23 RIH and tag cement. If cement top is deeper than 4700' then spot a second balanced cmt plug.
- 24 Install a CIBP as close to above the cement top as feasible.
- 25 Top off 5-1/2" with kill fluid and perform 500 psig pressure test to verify integrity of BP.
- 26 Perforate 5-1/2" casing above the CIBP or top of cement behind 5-1/2", whichever is shallower, attempt to circulate to surface or establish injection.

Consult with WE&T engineer on results.

- 27A If circulation to surface established, consult with WE&T engineer for procedure:
 - > Circulate kill weight fluid until good kill density fluid is returned.
 - > RIH with sliding-sleeve style cement retainer on work string.
 - > Set retainer above perfs
 - > Establish circulation
 - > Squeeze cement behind 5-1/2" casing with pre-determined cement volume that occupies no more annular volume than that required to place top of cement to 2000'.
 - Disengage from retainer, reverse circulate to clean tubulars, and TOH.
 - > WOC 24 hours.
 - > Obtain CBL.
- 27B If no circulation to surface, but injection established, consult with WE&T engineer for procedure:
 - > RIH with sliding-sleeve style cement retainer on work string
 - > Set retainer above perfs.
 - > Establish injection.
 - > Disengage from retainer and spot cement at bottom of work string.
 - > Squeeze cement behind 5-1/2" casing with pre-determined cement volume that occupies no more annular volume than that required to place top of cement to 2000'.
 - > Disengage from retainer, reverse circulate to clean tubulars, and TOH.
 - > WOC 24 hours
 - > Obtain CBL
- 27C If circulation / injection is not established, perforate (per WE&T engineer) and repeat process above in 100' interval until annular barrier is installed.

 * Note that during steps above cement plugs must be installed across all perf zones, casing shoes, and O/G/W zones.
- 28 Release all annular pressure and top off.
- 29 ND BOPE
- 30 Weld pulling nipple on 5-1/2" casing, pull seals and slips

PREPARED BY:	Maria Medvedeva	REVIEWED BY:	James Amos	APPROVED:	Brent Criser
PREP DATE:	9/12/2022				

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NOV 18 2022

STS Well Engineering & Technology	PAGE 3 DATE JOB PREF		9/12/2022
	WORK TYPE:	GPMC	
WELL: 12438			
SHL (Lat/Long): 38.448838 -81.398112	API:	Salah Kabub. Basa Kabuba	
BHL (Lat/Long): 38.448838 -81.398112	CNTY:	Kanawha	1000
	WELL: 12438 SHL (Lat/Long): 38.448838 -81.398112	WORK TYPE: WELL: 12438 SHL (Lat/Long): 38.448838 -81.398112 API: BHL (Lat/Long): 38.448838 -81.398112 CNTY:	WELL: 12438 WORK TYPE: GPMC

- 31 NU 11" BOPE (blind ram + pipe ram + annular) on top of the casing head. Need kill / choke outlets below blind / shear.
- 32 Function and attempt to pressure test BOPE to low (250 psig) and high (2500 psig). Report results to WE&T engineer.
- 33 Wireline freepoint 5-1/2" casing. Cut and pull al 5-1/2" casing that is free.
- 34 Obtain CBL inside 8-5/8" casing. Provide digital copy of log to WE&T engineer and consult to confirm next steps.
- Install balanced cement plugs from CIBP to top of cement behing the 8-5/8" casing. POOH above cement top, reverse circulate to clean tubulars, close pipe rams. WOC mininimum 4hrs.
- 36 ND BOPE.
- 37 Install pulling nipple on the 8-5/8" casing.
- 38 Wireline freepoint 8-5/8" casing, cut / pull all casing that is free.
- 39 TIH with work string and install balanced cement plugs from top of last cement plug to surface.
- 40 Grout all annuli as deep as possible.
- 41 RDMO service rig.
- 42 Erect monument per state regulations. Reclaim location and lease road.
- 43 P&A complete.
- 44 Notify REG / WE&T / Project controller that project is in-service.

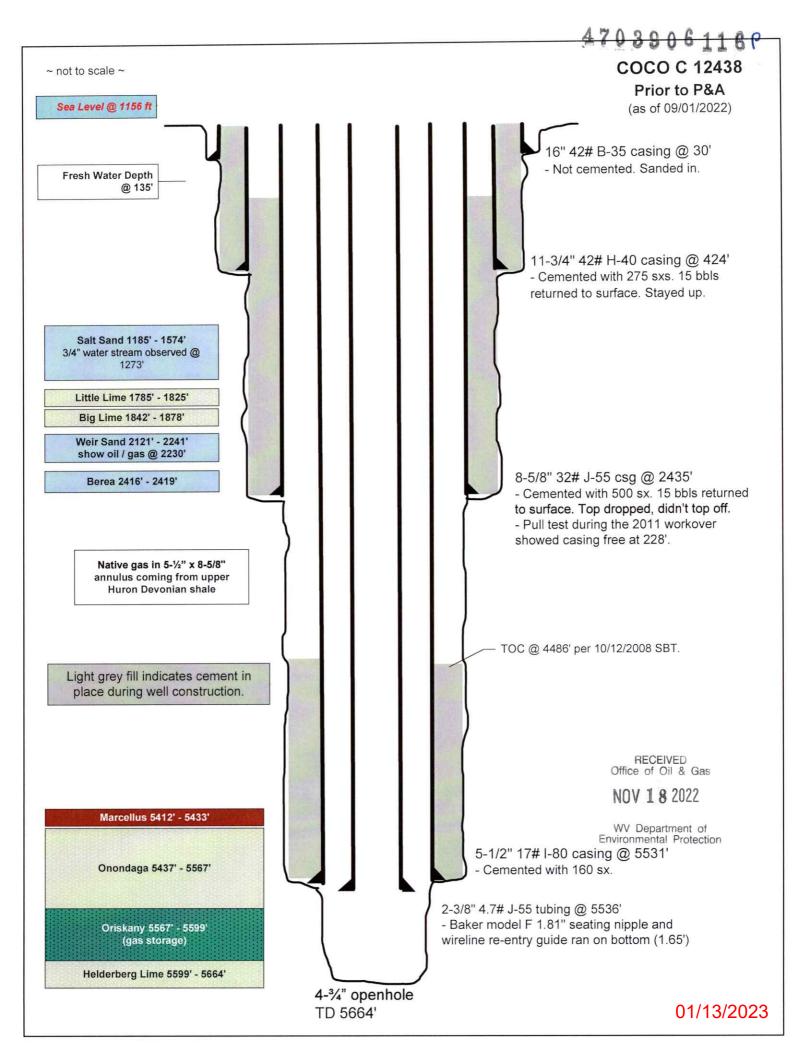
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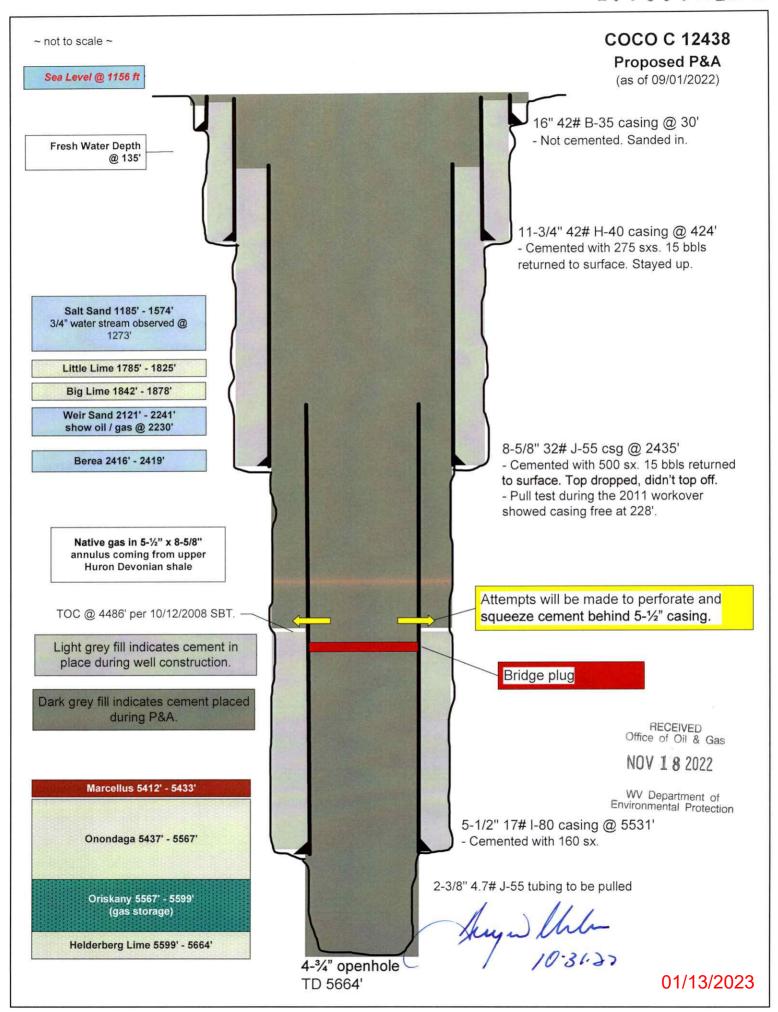
NOV 18 2022

WV Department of Environmental Protection

PREPARED BY:	Maria Medvedeva	REVIEWED BY:	James Amos	APPROVED:	Brent Criser	
PREP DATE:	9/12/2022		*			

Aury w Mlle 10.31.22





WR-35 Rev (8-10)

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

DATE:	11	15	<u> </u>	
API#:	47-039	-06110	3	

name: Brown, James F., III - Esquire	Operator Well No.: 12438 Quadrangle: Blue Creek				
ATION: Elevation: 1148					
District: Big Sandy	County: Kana	wha			
Latitude: 3442 Feet South of 38 Deg. 2	27 <u>Min</u>		·		
Longitude 6627 Feet West of 81 Deg. 2	Min_	. <u>30</u> Sec	.		
pany:					
Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Columbia Gas Transmission, LLC 1700 MacCorkle Ave SE Charleston, WV 25325	16	33	30	none - sanded	
Agent: Paul Amick	11-3/4	442	424	325	
Inspector: Terry Urban	8-5/8	2455	2435	770	
Date Permit Issued: 3/17/11	5-1/2	5545	5531	200	
Date Well Work Commenced: 3/22/11	2-3/8	5536	5536	NA	
Date Well Work Completed: 4/6/11					
Verbal Plugging: NA					
Date Permission granted on:					
Rotary X Cable Rig X					
Total Vertical Depth (ft):					
Total Measured Depth (ft): 5675		<u> </u>			
Fresh Water Depth (ft.): 135					
Salt Water Depth (ft.): 1273					
Is coal being mined in area (N/Y)? N					
Coal Depths (ft.): none			ļ		
Void(s) encountered (N/Y) Depth(s) N		<u></u>			
PEN FLOW DATA (If more than two producing formation Producing formation Oriskany Pay z Gas: Initial open flow NA MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests NA Static rock Pressure 100 psig (surface pressure) after the producing formation of t	one depth (ft) 5 NA Bb Hours	5578-5610 bl/d bl/d	ata on separate si	heet)	
Second producing formation Pay zon	e depth (ft)			RECEIVED	
Gas: Initial open flow MCF/d Oil: Initial open flo		bl/d	_	ffice of Oil & Gas	
Final open flow MCF/d Final open flow	Bb		N	IOV 1 8 2022	
Time of open flow between initial and final tests				VV Department of ronmental Protecti	

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

11/15/

01/13/2023

4703906116

Were core samples taken? YesNo_NA	_ Were cuttings caught	during drilling? Yes	No_NA
Were $\frac{N}{Y/N}$ Electrical, $\frac{N}{Y/N}$ Mechanical, $\frac{N}{Y/N}$	or Geophysical logs recorded on this v	vell?	
NOTE: IN THE AREA BELOW PUT T FRACTURING OR STIMULATING, PHYSIC DETAILED GEOLOGICAL RECORD OF TH ENCOUNTERED BY THE WELLBORE FRO	CAL CHANGE, ETC. 2). THE WEI IE TOPS AND BOTTOMS OF ALL	L LOG WHICH IS A S FORMATIONS, INCL	YSTEMATIC
Perforated Intervals, Fracturing, or Stimulating:			
Details of work performed to resolve annual	ular gas leak at surface betwee	n 8-5/8" x 11-3/4" sur	face casing.
Killed well. Pulled tubing. Set mechanica		· · · · · · · · · · · · · · · · · · ·	
Backed off 8-5/8" casing at 120 ft and pul	led - this is the same connectio	n that had been back	ed off during
repair work in 2009 - threads in bottom of	oupling imbedded with debris.	Ran 120 ft of new 8	-5/8" casing,
washed pin threads on stub looking up, and			
Swabbed well to re-establish gas flow. M	onitored 8-5/8" x 11-3/4" annulu	s for 6 months - gas	leak ceased.
 			
* source of problem was a connection lea	ak on 8-5/8" casing at a depth o	of 120 ft	
Formations Encountered: Surface:	Top Depth /	Bottom	<u>Depth</u>
Not applicable - repair work to existing w	eli.		
		<u> </u>	
			
100			· · · · · · · · · · · · · · · · · · ·
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		REC Office of	CEIVED f Oil & Gas

NOV 1 8 2022

WR-35 Rev (5-01) DATE: 1/16/09 API#: 47-039-06116

State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator's Report of Well Work

wen op	ctators responses we	ii wom			
Farm name: _James Brown	Oper	Operator Well No.: 12438			
LOCATION: Elevation: 1161 ft	Quad	Quadrangle: Blue Creek			
District: Big Sandy		nty: Kanawh			
Latitude: 3,442 Feet South	of 39 Deg. 27	Min. 30	Sec.		
	of 81 Deg. 22				
Company: Columbia Gas Transmission, LLC			1	1 12 12 12 1	
	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Address: 1700 MacCorkle Ave SE	16" 42# Gr. B-35	33	30	none – sanded in	
Charleston, WV 25325-1273					
	11-3/4" 42# H-40	442	424	275 sks	
Agent: Paul Amick					
Inspector: Terry Urban	8-5/8" 32# J-55	2455	2435	500 sks	
Date Permit Issued: 3/21/08					
Date Well Work Commenced: 9/26/08	5-1/2" 17# I-80	5545	5531	160 sks	
Date Well Work Completed: 1/8/09					
Verbal Plugging:	2-3/8" 4.7# J-55	5527	5527	none	
Date Permission granted on: not applicable					
Rotary X Cable Rig					
Total Depth (feet): 5675					
Fresh Water Depth (ft.): 135					
Salt Water Depth (ft.): 1273					
Is coal being mined in area (N/Y)? no					
Coal Depths (ft.): ft					
OPEN FLOW DATA					
Producing formation Oriskany San	d Pay zone dej	pth (ft) <u>558</u>	2-88		
Gas: Initial open flow 100 N					
Final open flow 370 MCF/d	Final open flow _	0 1	Bbl/d		
Time of open flow between initial	and final tests 30	Days		RECEIVED	
Static rock Pressure 1600 p	sig (surface pressur	e) after _72-	Hours	Office of Oil & Gas	
900 to 500 to 900 to 600 to				11011 4 0 1000	
Second Producing formation not ag	plicable			NOV 18 2022	
					
				WV Department of Environmental Protect	
NOTE: ON BACK OF THIS FORM PUT	THE FOLLOWING:	1). DETAILS	OF PERFOR	ATED Environmental Protect	
INTERVALS, FRACTURING OR STIMU					
LOG WHICH IS A SYSTEMATIC DETA		L RECORD C	OF ALL FORM	ATIONS,	
INCLUDING COAL ENCOUNTERED BY	THE WELLBORE.				
	- (, , , , , ,			3	
Signed: Cime C	une	0.1	c		
By: James E. Amos – S	enior Storage Enginee	er – Columbia	Gas Transmiss	ion Corp	
Pate: / 1 16 09		-			

Coco C well 12438

Well drilled to Oriskany Sandstone for underground natural gas storage.

Formation Record	Top (MD ft)	Comments
Salt Sands	1185	34" stream water @ 1273 ft
Little Lime	1785	
Big Lime	1842	
Weir	2121	show oil and gas @ 2230 ft
Sunbury Shale	2406	
Berea	2416	
Marcellus	5423	
Onondaga	5448	
Oriskany	5578	gas, trace of oil
Helderberg	5610	
TD	5675	

Perforations:

none

Stimulation:

500 gals 20% HCl acid

412 bbls gel 139 MSCF N2 18,700 lbs sand

Break:

2272 psig 14 BPM

Avg BH rate:

3090 psig

ATP: ISIP:

3990 psig (well screened)

Electric Logs Ran:

10/6/08

Density - CNL

10/6/08

Laterolog

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NOV 18 2022

WW-4A Revised 6-07 Ct \$100.00

470390611 ST 182022

1) Date:

2) Operator's Well Number

Environmental Protection

Coco C 12438

3) API Well No.: 47 -

06116

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Ow	ner(s) to be served:	5) ((a) Coal Operator			
(a) Name	James F Brown IV, truste	е	Name	Not operated		
Address	PO Box 88		Address	***		
	Charleston, WV 25321-00	88	_	***************************************		
(b) Name			(b) Coal Ov	vner(s) with D	eclaration	
Address			- Name	N 2		
11441633			Address	//		
			_			
(c) Name			Name			
Address	•		- Address	8		
Huuress			_			
6) Inspector	Terry Urban		(c) Coal Les	ssee with Decl	aration	
Address	P.O. Box 1207		- Name	sace with Dec.	aration	
Address	Clendenin, WV 25045		- Address	-		
m 1 1			_ Address			
Telephone	304-549-5915		_	S		
(2) The part of the reason However, y Take notice accompany Protection, the Applica	ou are not required to take an that under Chapter 22-6 of ing documents for a permit to with respect to the well at th	ts is that you have rig y action at all. the West Virginia Code to plug and abandon a ve e location described on mailed by registered	hts regarding the applications, the undersigned well with the Chief of the the attached Application certified mail or de	operator proposes t e Office of Oil and on and depicted on	o file or has filed Gas, West Virgin the attached Form	this Notice and Application and ia Department of Environmental n WW-6. Copies of this Notice, ned above (or by publication in
		By: Its:	Columbia Gas Transn Maria Medvedeva Senior Wells Enginee	r - Well Engineering	and Technology	
		Address	1700 MacCorkle Ave		_/_	
			Charleston, WV 2531	4		
		Telephone	304-410-4313			
Subscribed and	sworn before me this	. 20 da	ay of OCT.	2022 Nota		GREGORY S LARCH Notary Public Official Seal State of West Virginia

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at deepprivacyoffier@wv.gov.

Columbia Gas Transmission, LLC

1700 MacCorkle Ave., SE, Charleston, WV, USA 25314



October 27, 2022

James F Brown, trustee PO Box 88 Charleston, WV 25321-0088

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to plug and abandon an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Coco C 12438 (API 47-039-06116).

As part of the well permitting process, Columbia, the well operator, is required to provide a copy of all applicable permit application forms for your review and record retention.

Regards,

Maria Medvedeva Senior Wells Engineer Well Engineering & Technology Columbia Gas Transmission, LLC

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT For delivery information, visit our website Charleston, WV 25321 m 374. 0112 05 Extra Services & Fees (check box, a 0000 Return Receipt (electronic) \$0,00 Postmark Certified Mail Restricted Delivery Here \$0.00 Adult Signature Required Adult Signature Restricted Delive 3760 \$9.90 10/27/2022 \$17.15 7020 James F. PS Form 3800, April 2015 PSN 7530-02-000-9047

> RECEIVED Office of Oil & Gas

NOV 18 2022

USPS Tracking®

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70203160000037437843

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_gl=1*fbd8z7*_ga*MTMyNjcxMTU3MS4xNjYwNjcwNjQz*_ga_3NXP3C8S9V*MTY2ODY5MDkxNi4zNC4xLjE2Njg2OTEwNTguMC4wLjA.)

Latest Update as of 11/17/2022

This is a reminder to pick up your item before November 11, 2022 or your item will be returned on November 12, 2022. Please pick up the item at the CHARLESTON, WV 25321 Post Office.

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Reminder to pick up your item before November 11, 2022

CHARLESTON, WV 25321 November 2, 2022

Available for Pickup

CHARLESTON, WV 25321 October 28, 2022, 4:22 am

Arrived at Post Office

CHARLESTON, WV 25301 October 28, 2022, 4:09 am

Departed USPS Regional Facility

CHARLESTON WV PROCESSING CENTER October 27, 2022, 9:03 pm

Arrived at USPS Regional Facility

CHARLESTON WV PROCESSING CENTER October 27, 2022, 6:51 pm

Departed Post Office

INSTITUTE, WV 25112 October 27, 2022, 4:47 pm

USPS in possession of item

INSTITUTE, WV 25112 October 27, 2022, 11:42 am

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WV Department of Environmental Protection reedback

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FAQs

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WV Department of Environmental Protection Feedback

4703906116

SURFACE OWNER WAIVER

Operator's Well Number

Coco C 12438

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief. Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following RECEIVED. grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;

WV Department of 5) The applicant has committed a substantial violation of a previous permit or a substantial protectionne

or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no ol			work o	described	in these	materials	, and I h	ave no
objection to a permit being issued on thos FOR EXECUTION BY A NATURAL PERETC.		ls.		FOR EX	ECUTIO	ON BY A C	ORPORA	ATION,
	Date	Nar	ne					
Signature		By						
		Its					Dat	te

Signature

NOV 1 8 2022

WW-4B

API No.	47-039-06116	
Farm Name		
Well No.	Coco C 12438	
	1	

Coal not operated

INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less then five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

v	VAIVER
has examined this proposed plugging work order. T	er/ lessee/ of the coal under this well location the undersigned has no objection to the work proposed to be has complied with all applicable requirements of the West
Date:	
	Ву:
	Its

RECEIVED Office of Oil & Gas

NOV 18 2022



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 Phone (304) 926-0450 Harold D. Ward, Cabinet Secretary dep.wv.gov

BEFORE THE OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE OF WEST VIRGINIA

IN THE MATTER OF A VARIANCE FROM)		
LEGISLATIVE RULE 35CSR4)	ORDER NO.	2022-13
SECTION 14.1. AND LEGISLATIVE RULE)		
35CSR8 SECTION 20.1,)		
RELATING TO THE CEMENTING)		
OF OIL AND GAS WELLS)		

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection. Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well plugging.

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NOV 1 8 2022

FINDINGS OF FACT

WV Department of

- 1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
- 2. Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
- 3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal wells.

Promoting a healthy environment.

 On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogramed by API is approved for use in place of API Class A cement for well plugging subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION OF THE STATE OF WEST VIRGINIA

James Martin, Chief Office of Oil and Gas

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Office of Oil & Gas

NOV 18 2022

WW-9 (5/16)

API Number	47 -	039 _	06116
Operator's W	ell No	Coco C	12438

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Columbia Gas Transmission	OP Code 307032
Watershed (HUC 10) Rich Creek or Elk River	Quadrangle Blue Creek, WV
Do you anticipate using more than 5,000 bbls of water to complete	
Will a pit be used? Yes No	
If so, please describe anticipated pit waste: fresh water	, brine, cement returns, bentonite gel
	No If so, what ml.? 20
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a Underground Injection (UIC Permit N Reuse (at API Number	(umber_ 34-167-23862)
Off Site Disposal (Supply form WW-9 Other (Explain Mud Master 64054; Rese	P for disposal location) erve Environmental Services (WMGR123SW005)
	Services (WMGR123SW001)
Will closed loop systembe used? If so, describe: No	
Drilling medium anticipated for this well (vertical and horizontal)	? Air, freshwater, oil based, etc. N/A
-If oil based, what type? Synthetic, petroleum, etc	
Additives to be used in drilling medium? N/A	
Drill cuttings disposal method? Leave in pit, landfill, removed off	site, etc. N/A
-If left in pit and plan to solidify what medium will be us-	ed? (cement, lime, sawdust) Subsoils
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided with where it was properly disposed.	
on April 1, 2016, by the Office of Oil and Gas of the West Virginian provisions of the permit are enforceable by law. Violations of any or regulation can lead to enforcement action. I certify under penalty of law that I have personally exapplication form and all attachments thereto and that, based on my the information, I believe that the information is true, accurate, a submitting false information, including the possibility of fine or im Company Official Signature Company Official (Typed Name) Maria Medvedeva	Office of Oil & Gas NOV 1 8 2022
Company Official Title Senior Wells Engineer - Well Engineering at	VV Department of
	Environmental Protection
Subscribed and sworn before me this 20 day of	et , 2022
My commission expires Volt 20, 2025	Notary GREGORY S LARCH Notary Public Official Seal State of West Virginia My Comm. Expires Jul 20, 2025 TC ENERGY 1700 Maccorkie Ave. SE Charleston WV 25314 01/13/2023

4703906116P

Operator's Well No._____

	tment: Acres Disturbed <1.0	Prevegetation pH 6 - 7	
Lime 2	Tons/acre or to correct to pI	7-8	
Fertilizer type 10-	10-10		
Fertilizer amount_6	600	lbs/acre	
Mulch_ hay or sti	raw @ 2Tons	s/acre	
	Sec	ed Mixtures	
Т	emporary	Permanent	
Seed Type	lbs/acre	Seed Type lbs/acre	
Annual Rye	40	Orchard Grass and/or Tall Fescue	29
		Birdsfoot trefoil (empire)	9
		Annual Rye	12
For wotland areas:	Appual Pyo (40 lbs/acr.	e) until indigenous plants re-establish	cover
L, W), and area in acres, of	e pit will be land applied, provide v	ication (unless engineered plans including this info have water volume, include dimensions (L, W, D) of the pit,	e been and dime
L, W), and area in acres, of Photocopied section of invo	e pit will be land applied, provide we fithe land application area. Solved 7.5' topographic sheet.	water volume, include dimensions (L, W, D) of the pit,	e been and dime
L, W), and area in acres, of Photocopied section of invo	e pit will be land applied, provide we fithe land application area. Solved 7.5' topographic sheet.	water volume, include dimensions (L, W, D) of the pit,	and dime
L, W), and area in acres, of Photocopied section of invo	e pit will be land applied, provide we fithe land application area. Solved 7.5' topographic sheet.	water volume, include dimensions (L, W, D) of the pit,	and dime
L, W), and area in acres, of Photocopied section of invo	e pit will be land applied, provide we fithe land application area. Solved 7.5' topographic sheet.	water volume, include dimensions (L, W, D) of the pit,	and dime
L, W), and area in acres, of Photocopied section of invo	e pit will be land applied, provide we fithe land application area. Solved 7.5' topographic sheet.	water volume, include dimensions (L, W, D) of the pit,	EIVED Oil & Gas 2022
L, W), and area in acres, of Photocopied section of invo	e pit will be land applied, provide of the land application area. Solved 7.5' topographic sheet.	RECE Office of NOV 1	EIVED Oil & Ga

WW-9- GPP Rev. 5/16

	Page	(of	2
API Number 47 -	039	- 06116	
Operator's Well No	oCoco	C 12438	

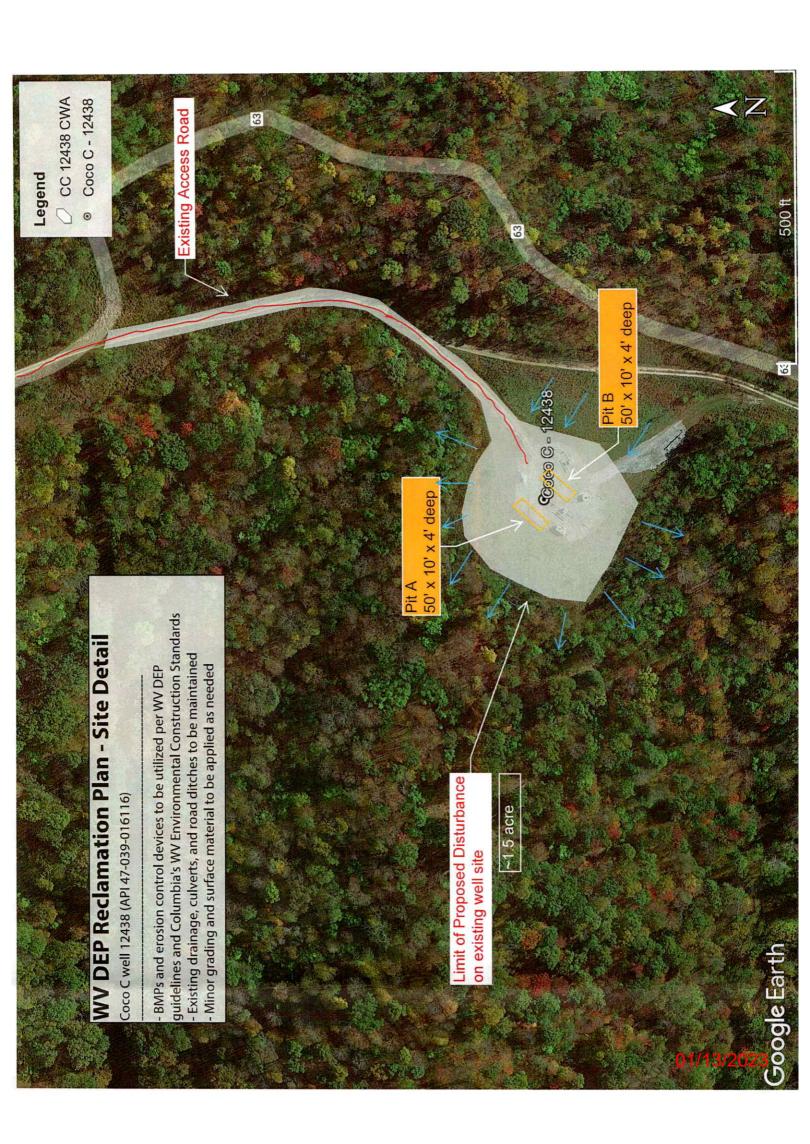
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS GROUNDWATER PROTECTION PLAN

GROUNDWATER PRO	STECTION FLAN
perator Name: Columbia Gas Transmission LLC	
atershed (HUC 10): Rich Creek or Elk River	Quad: Blue Creek, WV
arm Name:	
List the procedures used for the treatment and discharge of flu groundwater.	nids. Include a list of all operations that could contaminate the
 No fluids planned to be discharged. No fertilizer will be stored on site. Small quantities site, but located within secondary containment. Accidental release from well fluids and spills from contaminants to groundwater. All accumulated fluids to be hauled off site to UIC 	construction equipment are the only sources of
Describe procedures and equipment used to protect groundwat	terquality from the list of potential contaminant sources above.
All construction and well servicing equipment will Spill kits will be on site.	be monitored and inspected daily for leaks.
List the closest water body, distance to closest water body, discharge area.	and distance from closest Well Head Protection Area to the
Rich Creek is at a distance of 0.31 miles W.	
The Trail Kitchen (WV9908037) is the closest We miles SE from discharge area.	ell Head Protection Area at a distance of 8.16
. Summarize all activities at your facility that are already regula	ated for groundwater protection.
N/A	
	RECEIVED Office of Oil & 0

NOV 18 2022

WW-9- GPP Rev. 5/16 Page 2 of 2
API Number 47 - 039 _ - 06116
Operator's Well No._Coco C 12438

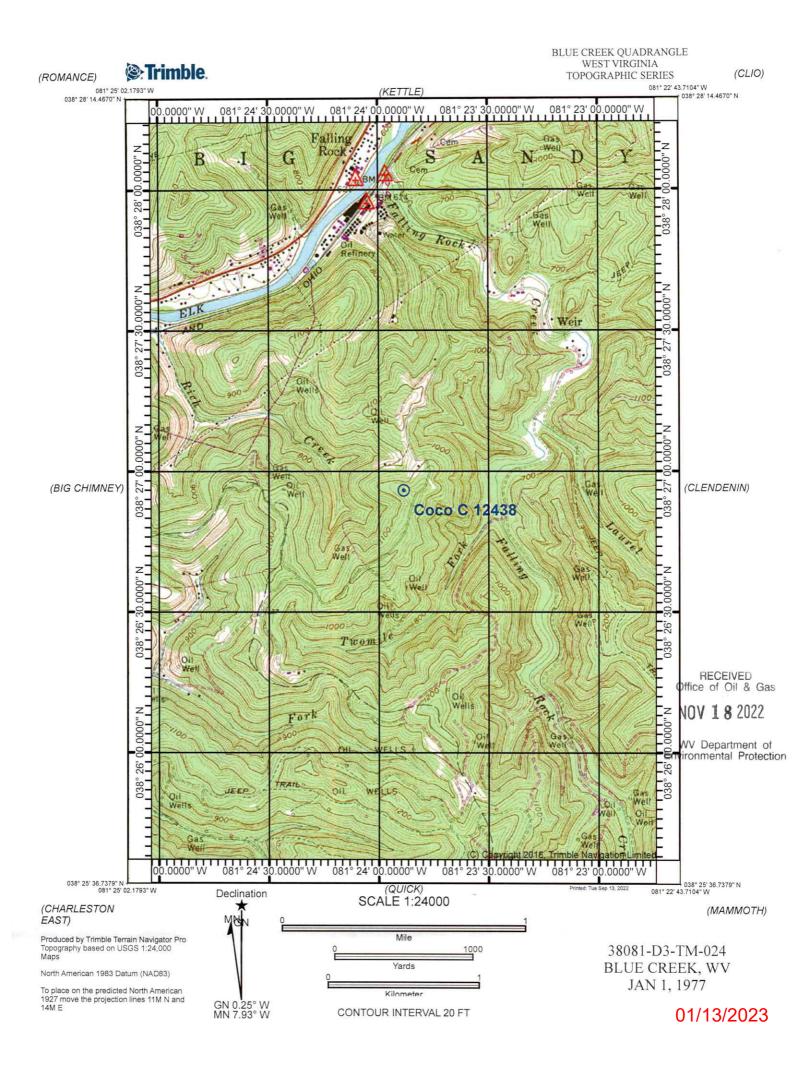
N/A	-
. Provide a statement that no waste material will be used for deicing or fill material on the propert	y.
No waste material will be used for deicing or fill material on the property.	
Describe the groundwater protection instruction and training to be provided to the employees provide direction on how to prevent groundwater contamination.	s. Job procedures shall
During routine tailgate meetings, groundwater protection will be a topic of d	liscussion.
Provide provisions and frequency for inspections of all GPP elements and equipment.	-
No fertilizer will be stored on site. Small quantities of fuel, oil, and lubricants of but located within secondary containment. Accidental release from well fluids construction equipment are the only sources of contaminants to groundwater	and spills from
All construction and well servicing equipment will be monitored and inspected spills.	d daily for leaks or
Signature:	RECEIVED Office of Oil & Gas
Date: 10/20/2072	NOV 1 8 2022

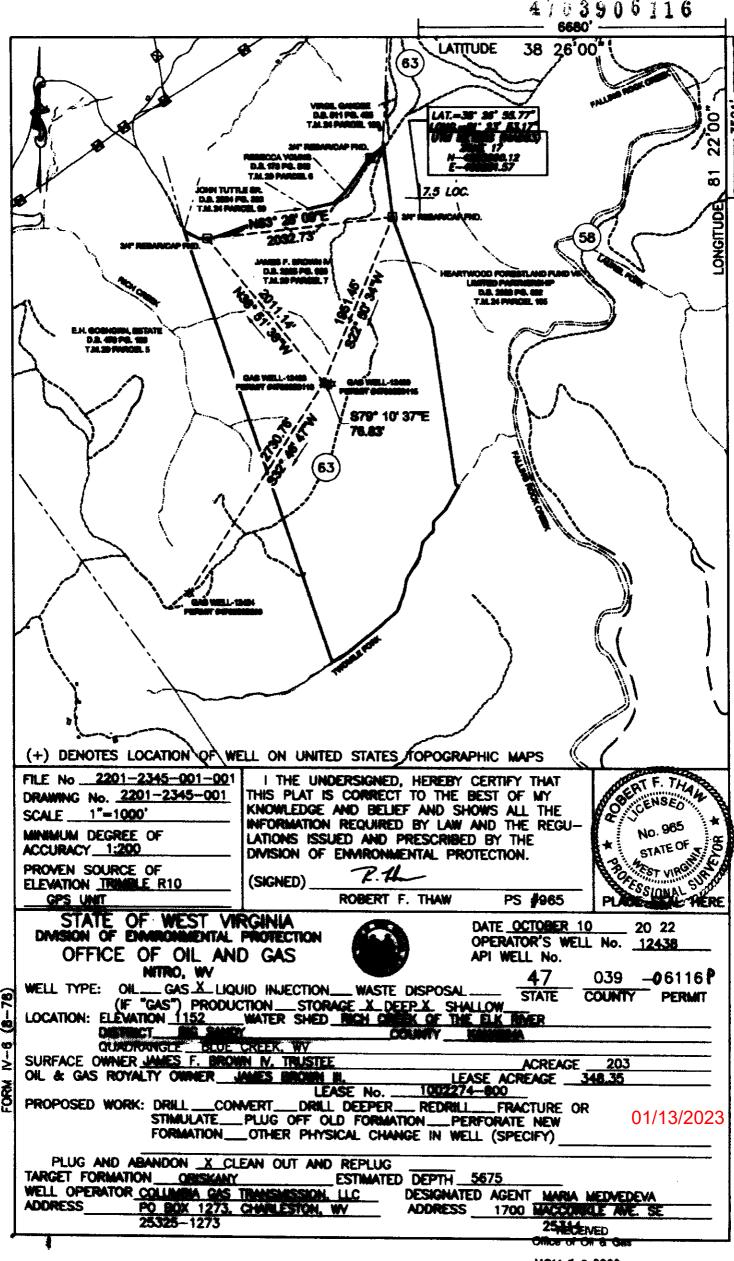


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Columbia Gas Transmission, LLC

1700 MacCorkle Ave., SE, Charleston, WV, USA 25314



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WV Department of Environmental Protection

November 17th, 2022

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

Enclosed is a well plugging permit application for the following Columbia Gas Transmission existing storage well:

Coco C 12438 (API 47-039-06116)

Please email to address below, and return hardcopies of permit to:

Columbia Gas Transmission 1700 MacCorkle Ave SE Charleston, WV 25314 Attn: Maria Medvedeva

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



Kennedy, James P < james.p.kennedy@wv.gov>

Plugging permits issued 4703901552 03906116 03906118

1 message

Kennedy, James P < james.p.kennedy@wv.gov>

Thu, Jan 12, 2023 at 9:14 AM

To: maria medvedeva@tcenergy.com, Terry W Urban <terry.w.urban@wv.gov>, sallierobinson@kanawha.us

To whom it may concern, plugging permits have been issued for 4703901552 03906116 03906118.

James Kennedy

WVDEP OOG

6 attachments

4703901552.pdf 6010K

4703906118.pdf 5584K

IR-8 4703901552.pdf 120K

4703906116.pdf 5180K

TR-8 4703906118.pdf 120K

IR-8 4703906116.pdf