

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

Monday, July 18, 2022 WELL WORK PLUGGING PERMIT Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC 1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re:

Permit approval for 7330 47-039-01496-00-00

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. Martin

Chief

Operator's Well Number: 7330

Farm Name: COPENHAVER, CHLOE

U.S. WELL NUMBER: 47-039-01496-00-00

Vertical Plugging Date Issued: 7/18/2022

Promoting a healthy environment.

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.

1) Date 03.10 2) Operator's Well No. Coco C 7330 3) API Well No. 47-039 - 01496

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

	APPLICATION FOR A PERM	AIT TO PLUG AND ABANDON					
4)	Well Type: Oil/ Gas X / Liquid	d injection / Waste disposal /					
		derground storage X) Deep X / Shallow					
	50 1860						
5)	Location: Elevation 736.6'	Watershed One Mile Fork of Blue Creek of the Elk River					
	District Elk	County Kanawha Quadrangle Blue Creek, WV					
6)	Well Operator Columbia Gas Transmission LLC	7) Designated Agent Maria Medvedeva					
	Address 1700 MacCorklle SE	Address 1700 MacCorklle SE					
	Charleston, WV 25314	Charleston, WV 25314					
8)	Oil and Gas Inspector to be notified	9) Plugging Contractor					
	Name Terry Urban	Name Contractor Services Inc					
	Address P.O. Box 1207	Address 929 Charleston Road RECEIVED					
	Clendenin, WV 25045	Spencer, WV 25276 Office of Oil and Gas					
		MAR 1 8 2022					
2	Refer to enclosed: 1) Well job plan. 2) Prior to P&A wellbore schematic. 3) Proposed P&A wellbore schematic. **Canous As Much 7" FREE CASI	er of plugging this well is as Environmental Protection					
		-					
Noti: vork	fication must be given to the district oil can commence.	l and gas inspector 24 hours before permitted					
lork	order approved by inspector Munph.	Illa Date 316.22					

PROCEDURE

- All cement used will be Class A, slurry weight 15.6ppg, slurry yield 1.18 cuft/sk. All spacers will be 6% Bentonite gel.

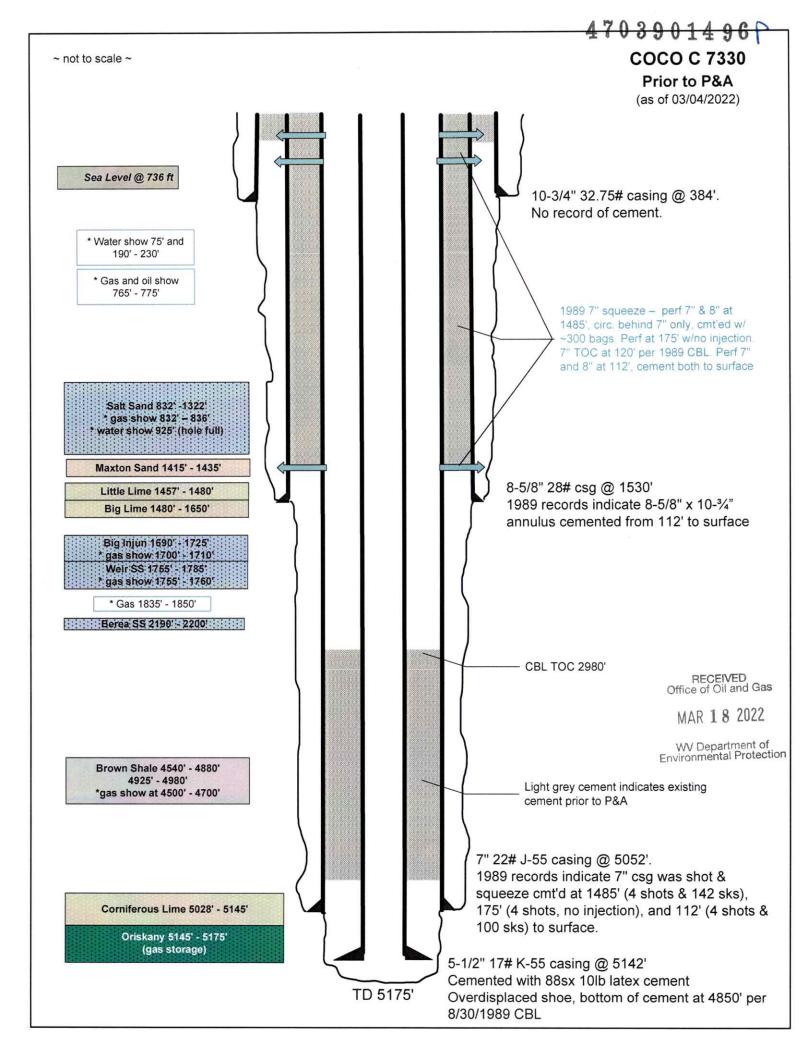
- Set down with the 4.68" junk catcher gauge ring at 5096' during 2015 casing inspection log run.
- 5.5" casing transitions to Hydril thread at 2696'.
- 1 Obtain State well work permit, EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
- 2 Notify landowner.
- 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.
- 5 Notify environmental inspector prior to beginning work. If required, notify State/Federal regulatory agencies prior to beginning work.
- 6 Prepare access road and well site. Install ECD's per EM&CP.
- 7 Document and report to WE&T the initial casing and annular pressures.
- 8 Blow down all annuli and replace fittings as necessary. Leave annuli open to atmosphere for monitoring.
- 9 Run caliper (note that during 2015 casing inspection set down with the 4.68" junk catcher gauge ring at 5096', 5.5" casing transitions to Hydril connection thread at 2636').
- 10 Load / top 5-1/2" x 7" and 7" x 8-5/8" annuli with kill fluid. Top off all remaining annuli with FW. Document volumes.
- 11 Kill well with 8.5 ppg viscosified fluid.
- 12 Dig around base of wellhead to uncover casing tops and remove cement if present.
- 13 MIRU service rig.
- 14 NU 7-1/16" Cameron BOPE (blind/shear + pipe + annular). Will need kill/choke outlets below blind/shear rams.
- 15 Function and pressure test BOPE to low (250 psig) and high (2500 psig).
- Obtain a digital magnalog inside 5-1/2" casing from TD to surface to locate the bottom of the 7" casing. Send digital log copies of magnalog to WE&T engineer to determine perf interval for squeeze cementing. 1989 CBL indicates a 5-1/2" wet shoe, cemented from 4850' to 2980'.
- 17 RIH with 2-3/8" work string w/ cut-lip shoe, wash to TD (~ 5175').
- 18 Install a bottom cement plug from TD to 4900'. PU above cement top, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC (min 8hrs) and tag cement top. If the cement top is deeper than 4950', install a second balanced cement top to 4900'.
- 19 Install 5-1/2" CIDBP as close as feasible above the cement plug.
- 20 Top off 5-1/2" with kill fluid and perform 500 psig pressure test to verify integrity of BP.
- 21 Perforate thru both the 5-1/2" csg and 7" casing (consult with perforating company) above BP 4874 4875' at 4spf phased at 90deg.
- 22 Perform injection test and install cement retainer above the perf's.
- 23A If injection established: Squeeze 40 bbls cement behind 7" casing. Disengage from cement retainer and clean tubulars. WOC 8 hrs.
- 23B <u>If injection is not established</u>: perforate through the 5-1/2" and 7" casings at 1650', engage retainer, close BOP, and attempt to circulate perf-to-perf behind the 7" csg taking returns to surface out of 5x7 annulus. If circulation is established, circulate to clean hole and suicide squeeze 40 bbls of cement. If circulation is not established, proceed to step 24.
 - ** Caution storage gas may be present after perforating at 1650'. Gas could enter 5-1/2" casing and / or 5-1/2" x 7" annulus. Monitor for kick inside 5-1/2" and in the annulus.
- 24 Install balanced cement plug from cement retainer to 2980' inside the 5-1/2" casing. WOC minimum 8 hours.
- 25 If the 5-1/2" x 7" annulus is static, ND BOPE.
- 26 Weld pulling nipple on 5-1/2" casing, pull seals and slips.
- 27 NU 11" BOPE (blind ram + pipe ram + annular) on top of the casing head. Need kill/choke outlets below blind/shear.
- 28 Function and attempt to pressure test BOPE to low (250 psig) and high (2500 psig).
- 29 Wireline freepoint and cut / pull all 5-1/2" casing that is free.
- 30 If squeeze cementing was successful, obtain CBL inside 7" csg. Send digital copy to WE&T engineer for evaluation.
 - Consult with WE&T engineer prior to proceeding with next Steps. Well condiiton may determine that a second cement squeeze is needed.
- 31 TIH with work string and install balanced cement plugs from top of last cement plug to 1450'. WOC 8 hrs and tag TOC.
- 32 If the cement top is deeper than 100' above the 5-1/2" casing stub, intall balanced cement plug to 1450'.
- Perforate thru both the 7" and 8-5/8" casings (consult with perforating company) above BP at 1' interval at 4spf at 90deg phasing at approx. ~1450'.
- 33 Attempt to ciruclate to surface with returns behind the 10-3/4" casing.
- 34A If circulatin is established cement surface to surface 8-5/8" and 10-3/4" casings.
- If circulatin is not established install cement retainer above perfs, perforate through both the 7" and 8-5/8" casing at 200'. RIH with work string, engage the cement retainer and attempt perf to perf circulation to surface. If circulation is established, squeeze cement behind 8-5/8" casing and install balanced cement plugs from retainer to surface. If circulation is not established, proceed to install balanced cement plugs from cement cement plugs from cement plugs from cement cement plugs from cement plugs
- 35 ND BOPE.
- 36 Top off and grout all annuli as deep as possible.
- 37 RDMO service rig.
- 38 Erect monument per state regulations. Reclaim location and lease road.
- 39 P&A complete.
- 40 Notify REG / WE&T / Project controller that project is in-service

MAR 18 2022

WV Department of Environmental Protection

PREPARED BY:	Maria Medvedeva	REVIEWED BY:	James Amos	APPROVED:	Brent Criser
PREP DATE:	3/8/2022				

COCO C 7330 ~ not to scale ~ Proposed P&A (as of 03/04/2022) Sea Level @ 736 ft 10-3/4" 32.75# casing @ 384'. No record of cement. * Water show 75' and 190' - 230' * Gas and oil show 765' - 775' 1989 7" squeeze - perf 7" & 8" at 1485', circ. behind 7" only, cmt'ed w/ ~300 bags. Perf at 175' w/no injection. 7" TOC at 120' per 1989 CBL. Perf 7" and 8" at 112' cement both to surface Salt Sand 832' -1322' gas show 832' - 836' Attempts will be made to perf at ~1450', water show 925" (hole full) squeeze cement behind 8-5/8" and 10-3/4" csgs. Maxton Sand 1415' - 1435' 8-5/8" 28# csg @ 1530' Little Lime 1457' - 1480' 1989 records indicate 8-5/8" x 10-3/4" Big Lime 1480' - 1650' annulus cemented from 112' to surface Big Injun 1690" - 1725" gas show 1700' - 1710' Weir SS 1755 - 1785 Dark grey cement indicates cement * gas show 1755 - 1760 to be placed during P&A * Gas 1835' - 1850' Berea SS 2190' - 2200' Attempts will be made to perf at 1650', **CBL TOC 2980'** squeeze cement behind 7" csg. Light grey cement indicates existing Brown Shale 4540' - 4880' cement prior to P&A 4925' - 4980' *gas show at 4500' - 4700' Cement Retainer Attempts will be made to perf at 4875', 7" 22# J-55 casing @ 5052'. squeeze cement behind 7" csg. 1989 records indicate 7" csg was shot & squeeze cmt'd at 1485' (4 shots & 142 sks), Corniferous Lime 5028' - 5145' 175' (4 shots, no injection), and 112' (4 shots & 100 sks) to surface. Oriskany 5145' - 5175' (gas storage) 5-1/2" 17# K-55 casing @ 5142' Cemented with 88sx 10lb latex cement Overdisplaced shoe, bottom of cement at 4850' per Cast Iron Bridge plug @ ~4900' TD 5175' 8/30/1989 CBL



DM-25

United Fael Ges Company

SERIAL WELL NO. 6483 LEASE NO.					MAP SQUARE 70-65		
on the	1	CASING AND	TUBING		TEST BEFORE SHOT		
97Acres	SIZE	WEIGHT	DRILLING	LEFT IN WELL	/10 of Water ininch		
District	10 3/4"	32.75	3820141	38414	/10 of Merc, ininch		
County	8 5/8"	28#	1530.10	#1530	Ovolume 25,000,000 Cu. ft.		
State of: West Virginia							
	2#		5139 4	:5139*	/10 of Water ininch		
194					/10 of Merc, ininch		
194					VolumeCu. ft.		
194					Hours After Shot		
194					Rock Pressure /6.55#		
					Date Shot Not shot		
Drilling to cost per foot Contractor is: Mays & Harper					Size of Torpedo		
	Ш	SHUT IN			Oil Flowed bbls. 1st 24 hrs		
		Date		4-4-49			
				NU FEE			
Dan Scyce Bert Litton							
					Plugged 194		
				rom	#		
			,				
		THICKNESS	 		REMARKS		
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290	315				JUN 30 1949		
					DIVISION SUPT.		
					Division		
355	475						
475	510						
510	690						
690	720						
720	765						
	97Acres District County 194 194 194 194 per foot 705 0 12 40 80 95 180 190 230 242 290 315 325 355 475 510 690	On the 97Acres District 10 3/4* County 8 5/8* 9 24 194 194 194 194 194 per foot 0 12 12 40 40 80 80 95 95 180 180 190 190 230 240 240 290 315 315 325 325 355 355 475 475 510 510 690 690 720	### Property of the property o	On the SIEX WEIGHT DISTRIBUTION 97Acres SIEX WEIGHT DISTRIBUTION District 10 3/4" 32.75 38734" County 8 5/8" 28#, 3530*10 9*25*** 22# 51.28*51 2** 4# 51.39*14* 194 194 194 194 194 194 194	On the SIEX WEIGHT DISCRIPTING LEFT IN WELL PRICE PRIC		

Em

FORM U 97-1-P C 8 D

SERIAL WELL NO.

LEASE NO. 7425

MAP SQUARE 70-65

FORMATION	TOP	воттом	THICKNESS	REMARKS
Black Slate	765	775		show of gas & Oil
Black Line	775	790		7 7 7
alate	790	800		
ine	800	815		
Slate	83.5	832		
Salt Sand	832	1322		Gas 832*to 836! Water 925! Hole full
Slate	1312	1314	1	
Broken Sand	1314	1321		
sed Rock	1321	1330		
Grey Line	1330	1400		
ilack Line	1400	1/15		
Kaxon Sand	1/15	1435		2 X -
Slate Shells	1435	1457		if i
Black Line	1457	1480		
Big Lime	1480	1650		
Broken Und	1650	1680		
Slate	1680	1690		
Big Injun	1690	1725		Gas 1700! to 1710!
Slate Shells	1725	1755		
Weif Sand	1755	1785		Gas 1755! to 1760!
Slate shells	1785	1900		Gas 1835' to 1850'
Broken send	1900	2000		
Lime Shells	2000	2100		
Slate Shells	21.00	2190		
Beres Grit	2190	2200		RECEIVED
Slate shells	2200	2450		Office of Oil and Gas
INTERCENCE Shite Slate	2450	2700		MAR 1 8 2022
Broken sand	2700	2710		The state of the s
Slate Shells	2710	3790		WV Department of Environmental Protection
Dark olate	3790	4040		
Milto Slate	1010	4540		
Brown Shale	4540	4880		Gas 4500' to 4700'
THE WANTE White Slate	4880	4925		
Brown Shale	4925	1,980		
Black shale	4980	5028		Tempture at 5150' 120 F.
Commeficus Lime	5028	5145		Steel Line top concerfious 502
Oriskany Sand	5145	5175	-	Gas 51561 to 51751 test. 25.600.000

SERIAL WELL NO. 4483

LEASE	NO.	7425	C .
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MAP SQUARE 70-65

		DRILLI	ER'S RECORD	,				
FORMATION	100	воттой	THICKNESS	REMARKS				
Total Depth	5175			Tempture 5150: 120 Fa				
Final Open Flores 25,000,000	CEA Ft.							
ick Ups: 1-M 120# 2-M	220# 3-1	400#	4-H 520	5-M 690# 6-M 800# 7-M 910# 8-M 102				
9_N 1125# 10_N 1200# 11-1				1400# 14-M 1455# 15-M 1500# 16-N 153				
7-N 15758 18-N 16008 19-	N 1610#	20-M 1625	23-X	1630# 22-N 1635# 23-N 1640#				
4-M 1645# 25-N 1650# 26-1	(1650# 2	7 M 1650#	28-X 16	650# 29-N 1650# 30-N 1650# 35-N 1650				
O-H 1650# 45-H 1650# 50-	→ 1650#	55-M 1650	# 60-H]	1450#				
		<u> </u>		\$2 Hrs. Rock Pressure 1450 #				
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WW-4A Revised 6-07

1) Date:	03.10.2022	
2) Operato	r's Well Number	
Coco C 7330		

039

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

3) API Well No.: 47 -

	rner(s) to be served:		(a) Coal Operator		
(a) Name	Arnold and Teresa Wade	Э		ot operated	
Address	627 Elk Est		Address		
	Elkview, WV 25071				
(b) Name				(s) with Declaration	
Address	()		_ Name _		
	·		Address		
(c) Name			Name		
Address			Address		RECEIVED Office of Oil and Gas
6) Inspector	Terry Urban			with Declaration	MAR 1 8 2022
Address	P.O. Box 1207	1111	Name		
	Clendenin, WV 25045	(10)	Address		WV Department of Fryironmental Protection
Telephone	304-549-5915				E 11111
well	its and the plugging wor	k order; and		out the parties involved in	n the work and describes the
well (2) The The reason However, Take notic accompany Protection the Applic	its and the plugging wor plat (surveyor's map) sh in you received these docume you are not required to take a tee that under Chapter 22-6 of ying documents for a permit with respect to the well at	ck order; and owing the well location that you have right any action at all. If the West Virginia Coot to plug and abandon a the location described on mailed by registered on the mailed by registered.	on on Form WW-6. The phase regarding the application of the undersigned well open well with the Chief of the Offin the attached Application at or certified mail or delivered.	which are summarized in the ator proposes to file or has filed fice of Oil and Gas, West Virgind depicted on the attached For	instructions on the reverses side. d this Notice and Application and mia Department of Environmental m WW-6. Copies of this Notice, amed above (or by publication in
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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 depprivacyoffier@wv.gov.

Columbia Gas Transmission, LLC

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



March 10, 2022

Arnold and Teresa Wade 627 Elk Est Elkview, WV 25071 RECEIVED Office of Oil and Gas

MAR 1 8 2022

WV Department of Environmental Protection

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 7330 (API 47-039-01496).

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

CERTIFIED MAIL® RECEIPT Domestic Mail Only 53 Elkylew WW 57 Certified Mail Fee \$3.75 UF1645 121 Return Receipt (hardcopy) Return Receipt (electronic) Certified Mail Restricted Del \$0.00 Adult Signature Required Adult Signature Restricted Del 50 \$8.95 03 03/14/2022 Total Postage and Fees \$15.75 7021

U.S. Postal Service™

SENDER: COMPLETE THIS SECTION
Complete items 1, 2, and 3.
Print your name and address on the reverse so that we can return the card to you.
 Attach this card to the back of the mailpiece, or on the front if space permits.
1. Article Addressed to:
Arnold and Teresa wade
627 Elk Est
ELKVIEW, WV 25071
9590 9402 7080 1251 3695 05

7021 0350 0001 9251 8530

D. Is delivery address different from item 1?
If YES, enter delivery address below:

B. Received by (Printed Name)

COMPLETE THIS SECTION ON DELIVERY

3. Service Type

(over \$500)

☐ Adult Signature
☐ Adult Signature Restricted Delivery
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☐ Signature Confirmation

☐ Signature Confirmation

Restricted Delivery

☐ Agent ☐ Address

C. Date of Delive

3-15

☐ Yes

DINO

www.tcenergy.com

4703901496

SURFACE OWNER WAIVER

Operator's Well Number

Coco C 7330

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

<u>Time Limits and methods for filing comments.</u> 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.

<u>Comments must be in writing.</u> 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 Gentlewing grounds:

1) The proposed well work will constitute a hazard to the safety of persons.

MAR 18 2022

- 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 Environmental Protection

5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one 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.

			k described in these materials, and I have no
objection to a permit being issued on FOR EXECUTION BY A NATURAL ETC.			FOR EXECUTION BY A CORPORATION,
	Date	Name	
Signature		Ву	
		Its	Date

Signature

Date

	and the same
$\mathbf{u}_{\mathbf{x}}$	$I \cap I$
VV VV	-4D

4	7	0	3	9	0	1	4	9	6	0
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API No.	47-039-01496
Farm Name	
Well No.	Coco C 7330
	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. RECEIVED
Office of Oil and Gas

MAR 18 2022

WV	Department of
Enviror	mental Protection
Enviror	III CITTAL LIGIT

	WAIVER	Environmental Protection
has examined this proposed plugg	ging work order. The undersigned has no the well operator has complied with all a regulations.	objection to the work proposed to be
Date:		
	Ву:	
	Its	

WW-9 (5/16)

API Number 47 -	039	_ 01496	
Operator's Well No	oCoc	co C 7330	

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) One Mile Fork of Blue Creek of the Elk River Quadrangle Blue Creek, WV
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes V No
If so, please describe anticipated pit waste: fresh water, brine, cement returns, bentonite gel
Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20
Proposed Disposal Method For Treated Pit Wastes:
Land Application (if selected provide a completed form WW-9-GPP) Underground Injection (UIC Permit Number 34-167-23862) Reuse (at API Number) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Mud Master 64054; Reserve Environmental Services (WMGR 123SW008)
Appalachian Water Services (WMGR 123SW001)
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 RECEIVED
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A Office of Oil and Gas
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Subsoils MAR 18 2022
-Landfill or offsite name/permit number? WV Department of Environmental Protection
Permittee shall provide written notice to the Office of Oil and Cas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for o btaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title Senior Wells Engineer - Well Engineering and Technology
Subscribed and sworn before me this 14th day of March , 20 2 2 Notary Public
My commission expires 10 - 30 - 2026

4703901496P Coco C 7330

Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and (L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Office MA	Fertilizer type 10-10-10 Fertilizer amount 600		nent: Acres Disturbed <1.0	Prevegetation pH 6 - 7	
Fertilizer amount 600 lbs/acre Mulch hay or straw @ 2 Tons/acre Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre Annual Rye 40 Orchard Grass and/or Tall Fescue Birdsfoot trefoil (empire) Annual Rye For wetland areas: Annual Rye (40 lbs/acre) until indigenous plants re-establish coverage Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have be provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and (L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet.	Fertilizer amount 600 Ibs/acre	Lime 2	Tons/acre or to correct to pH	7 - 8	
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WW-9- GPP Rev. 5/16

	Page	1 of 2	
API Number 47	7 - 039	- 01496	
Operator's Well		o C 7330	

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

GROUNDWATER PROTECTION PLAN

Operator Name: Columbia Gas Transmission LLC		
Watershed (HUC 10): One Mile Fork of Blue Creek of the Elk River	Quad: Blue Creek, WV	
Farm Name:		
 List the procedures used for the treatment and discharge of fluids. Include groundwater. 	de a list of all operations that could	contaminate the
 No fluids planned to be discharged. No fertilizer will be stored on site. Small quantities of fuel, of site, but located within secondary containment. Accidental release from well fluids and spills from construction contaminants to groundwater. All accumulated fluids to be hauled off site to UIC disposal 	ction equipment are the only s	
2. Describe procedures and equipment used to protect groundwater quality	from the list of potential contaminan	t sources above.
All construction and well servicing equipment will be mon Spill kits will be on site.	itored and inspected daily f	or leaks.
 List the closest water body, distance to closest water body, and distandischarge area. 	nce from closest Well Head Protect	tion Area to the
Blue Creek is at a distance of 0.17 miles N.		
The Trail Kitchen (WV9908037) is the closest Well Head miles SE from discharge area.	Protection Area at a distan	ce of 10.07
miles ez mem disenarge area.		RECEIVED Office of Oil and Gas
		MAR 1 8 2022
4. Summarize all activities at your facility that are already regulated for gro	oundwater protection.	WV Department of Environmental Protection
N/A		

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

WW-9- GPP Rev. 5/16

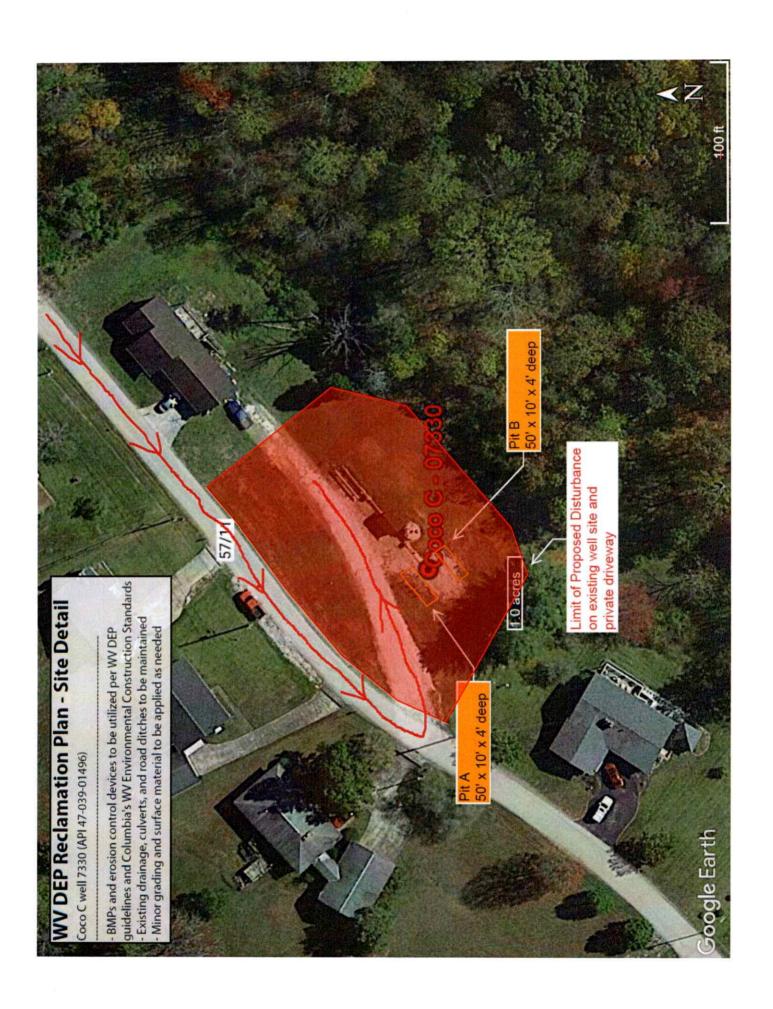
	Page	2 of	2
API Number 47	- 039	01496	
Operator's Well	NoCoco	C 7330	

N/A	
C. Devide and the state wests material will be used for design or fill material on the property.	
6. Provide a statement that no waste material will be used for deicing or fill material on the property.	
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. Job procedures sha provide direction on how to prevent groundwater contamination. 	ıll
During routine tailgate meetings, groundwater protection will be a topic of discussion.	
Offi	RECEIVED ice of Oil and Gas
M	IAR 1 8 2022
8. Provide provisions and frequency for inspections of all GPP elements and equipment.	V Department of onmental Protection
No fertilizer will be stored on site. Small quantities of fuel, oil, and lubricants will be stored on site but located within secondary containment. Accidental release from well fluids and spills from construction equipment are the only sources of contaminants to groundwater. All construction and well servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and inspected daily for leaks of the servicing equipment will be monitored and the servicing equipment will be monitored.	

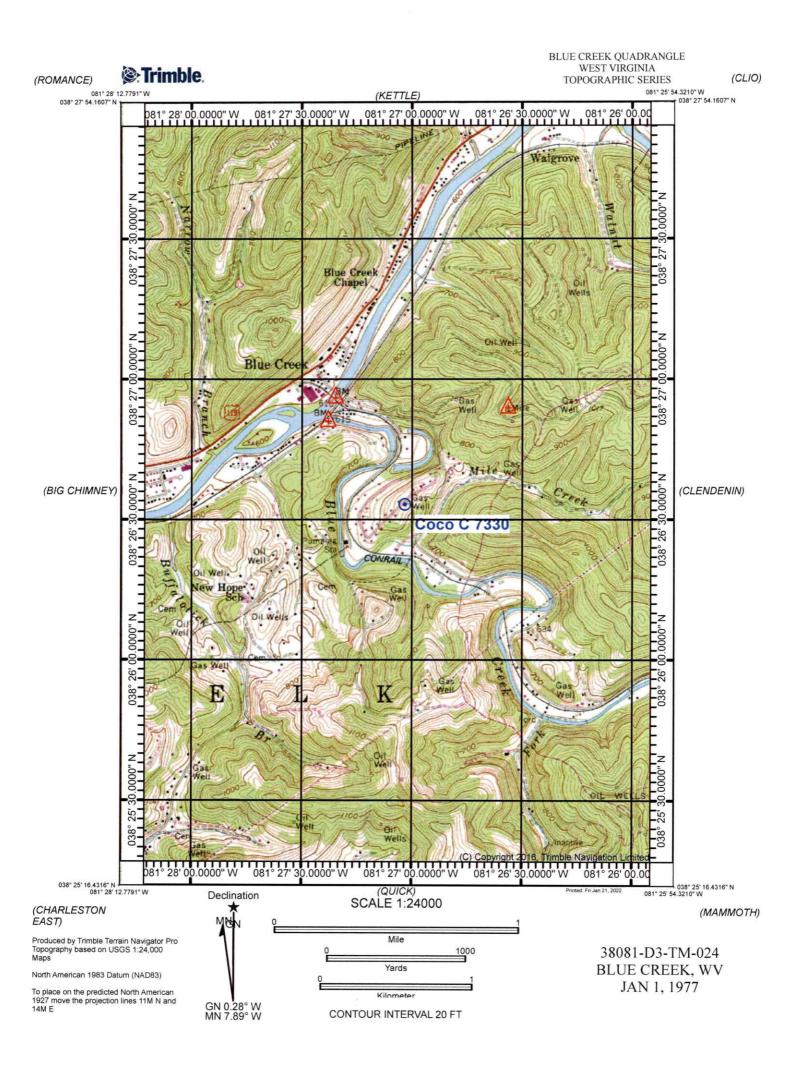
Signature:

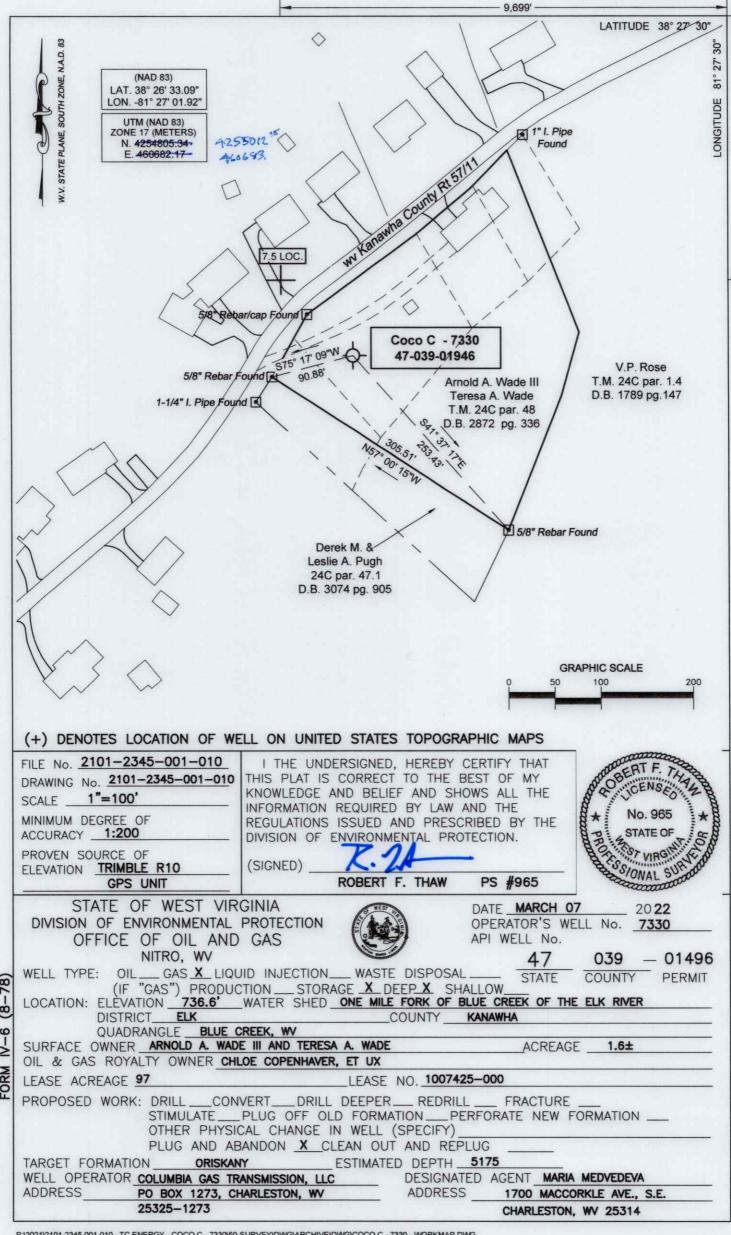
spills.

Date:









Columbia Gas Transmission, LLC

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



March 10, 2022

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

Enclosed are well plugging permit application for the following Columbia Gas Transmission existing storage wells:

Coco C 7330 (API 47-039-01496)

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

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

RECEIVED Office of Oil and Gas

MAR 18 2022

WV Department of Environmental Protection

If you have questions, feel free to call.

Regards,

Maria Medvedeva

Senior Wells Engineer

Well Engineering & Technology

Columbia Gas Transmission, LLC

304-357-2445 Off:

Mob: 304-410-4313

maria medvedeva@tcenergy.com

CK# 055288 Amt \$ 100 Date 3/14/22





<jeffrey.w.mclaughlin@wv.gov> McLaughlin, Jeffrey W

COCO 7330 UTM COORDINATES

1 message

To: "Jeffrey.W.McLaughlin@wv.gov" <Jeffrey.W.McLaughlin@wv.gov> Robert Thaw <robert.thaw@terradon.com>

Tue, Mar 22, 2022 at 11:32 AM

Mr. McLaughlin

follows: am confirming that the correct UTM coordinates for COCO 7330 are as

N 4255012.05

П 460683.16

Vice President - Survey Services

Robert F. Thaw, PS

TERRADON Corp.

409 Jacobson Dr.

Poca, WV 25159

main://304.755.8291

direct://304.729.9105

mobile://304.415-4080

web://terradon.com





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

ATTN plugging permit appoval for 4703901496

1 message

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

Mon, Jul 18, 2022 at 3:05 PM

To: Jeffrey W McLaughlin <jeffrey.w.mclaughlin@wv.gov>, Wade A Stansberry <wade.a.stansberry@wv.gov>, maria_medvedeva@tcenergy.com, sallierobinson@kanawha.us, Terry W Urban <terry.w.urban@wv.gov>

For whom it may concern. Plugging permit for 4703901496 has been approved and issued.

James Kennedy WVDEP OOG

2 attachments



4703901496.pdf 5708K



IR-8 Blank.pdf 237K