



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, October 7, 2024
WELL WORK PERMIT
Vertical / Re-Work

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for 7324
47-039-01533-00-00


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.

Please be advised that form WR-35, Well Operators Report of Well Work 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

A blue ink signature of James A. Martin, written in a cursive style, is positioned to the right of his name and title.

Operator's Well Number: 7324
Farm Name: BANNISTER, THOMAS- EST 
U.S. WELL NUMBER: 47-039-01533-00-00
Vertical Re-Work
Date Issued: 10/7/2024

Promoting a healthy environment.

10/11/2024

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.
2. 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 within 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 Officer of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

10/11/2024

4703901533W

Columbia Gas Transmission, LLC
1700 MacCorkle Ave., SE, Charleston, WV, USA 25314



September 10, 2024

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

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

Coco C 7324 (API 47-039-01533)

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

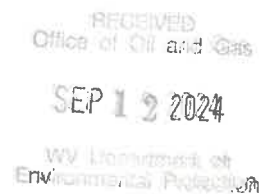
Columbia Gas Transmission
1700 MacCorkle Ave SE
Charleston, WV 25314
Attn: Maria Medvedeva

If you have questions, feel free to call.

Regards,

A handwritten signature in black ink, appearing to read "Maria Medvedeva", written over a light blue horizontal line.

Maria Medvedeva
Senior Wells Engineer
Well Engineering & Technology
Columbia Gas Transmission, LLC
Mob: 304-410-4313
maria_medvedeva@tcenergy.com



www.tcenergy.com

10/11/2024

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Columbia Gas Transmission, LLC 307032 Kanawha EIk Blue Creek, WV
Operator ID County District Quadrangle

2) Operator's Well Number: Coco C 7324 3) Elevation: 1006.7

4) Well Type: (a) Oil _____ or Gas X
 (b) If Gas: Production _____ / Underground Storage X
 Deep X _____ / Shallow _____

5) Proposed Target Formation(s): Oriskany Proposed Target Depth: 5427

6) Proposed Total Depth: 5496 Feet Formation at Proposed Total Depth: Oriskany

7) Approximate fresh water strata depths: Water reported at 1170' by driller

8) Approximate salt water depths: None reported by driller

9) Approximate coal seam depths: None reported by driller

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10) Approximate void depths,(coal, Karst, other): None reported by driller

SEP 12 2024

11) Does land contain coal seams tributary to active mine? No

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12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Perform cased hole logs, perform coil tubing cleanout and 2000 gal 15% HCl acid stimulation, pending results of the CTCO potentially fracture stimulate well, flowback.

13) **CASING AND TUBING PROGRAM** * existing

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	
Conductor	14		42	18	18	
Fresh Water	10.75		32.75	529	529	squeeze 19 sxs
Coal	8.625		28	1809	1809	squeeze 175 sxs
Intermediate	7		23	5317	3867	-
Production	5.5		15.5	5317	3822	-
Production	4.5 *		11.6	1598	1598	cemented to 3950'
Production	4.5		12.6	5393	3795	cemented from 5393'

August 2024
8-21-24

Packers: Kind: * 20' Homco Internal Patch installed at 1505'
 Sizes: _____
 Depths Set _____

WELL JOB PLAN		STS Well Engineering & Technology		PAGE 2	DATE JOB PREPARED: 4/9/2024
Objective: Restore Deliverability				LAST PROFILE UPDATE:	
TITLE: Log, CTCO, pending results of CTCO possible frac			WORK TYPE: 0		
FIELD: Coco C	WELL: 7324				
STAT: WV	SHL (Lat/Long): 38.448387 -81.437138		API: 47-039-01533		
TWP: Elk	BHL (Lat/Long): 38.448387 -81.437138		CNTY: Kanawha		

PROCEDURE

NOTE: FWW in 2021 didn't restore any deliverability and the well has dropped off since the 1996 WO. In 1996 stimulated Oriskany with cross-linked gel with 15,000 # 20/40 sand.

- 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 Disconnect well line.
 - 7 Prepare access road and well site. Install ECD's per EM&CP.
 - 8 Service all wellhead valves.
 - 9 Document and report to WE&T the initial casing and annular pressures.
 - 10 MIRU Baker Atlas Logging. Run guage ring, HRVRT casing, Temperature and Intex CBL logs. RD loggers.
Note: casing ID restriction with the Homco Internal Patch set at 1495 - 1515', 3.75" patch ID restriction. Request 1-day turnaround on HRVRT analysis. Condition of 4-1/2" casing will determine next steps. Consult with WE&T engineer before proceeding.
 - 11 MIRU 1.75" CTU.
 - 12 Obtain stabilized pre-cleanout rate through 3/4" choke.
 - 13 RI with jetting tool. At 5300' begin flowing well and jet to TD with foamed TFW. At TD begin foamed 15% HCl with mutual solvent (must be compatible with HCl acid to avoid emulsions or damaging by-product) and jet across storage interval (5393 - 5496') until 1000 gals are gone. Pull up into casing and flow well until relatively dry. RBIH to 5500' and spot 1000 gals 15% HCl acid with mutual solvent. Pull up to 3500' and load wellbore above acid with TFW. Allow to soak for 60 minutes. Displace acid into formation with 1000 gals TFW. Unload wellbore with nitrogen to re-establish gas flow.
 - 14 Flow well to dry and POOH.
 - 15 RDMO CTU.
 - 16 Perform final 45-min flowback test thru 3/4" choke. Record flow test in the FLOWTEST and GAS LOSS DATA SHEET.
- If CTCO flowtest results dictate and well condition allows -*
- 17 Fracture stimulate based on REG recommendations and confirmed 4-1/2" casing condition from new HRVRT and Temperature logs.
Hydraulic isolation between bottom of 8-5/8" csg and 4-1/2" packer is unknown based on existing Bond Attenuation Log, and likley doesn't exist. 5-1/2" and 7" casing strings have been partially pulled and were uncemented per historic records when originally run.
 - 18 Reconnect well line.
 - 19 Notify WET Project Support that well is back in-service.
 - 20 Reclaim R&L.
 - 21 Commission well by completing, processing, and retain for records the Wellsite Review and Turnover Form.
 - 22 Notify REG that well is ready for storage service.

**All freshwater based fluids to be treated with biocide and clay stabilizer.
All acids to be treated with corrosion inhibitor and iron control.**

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PREPARED BY: Maria Medvedeva	REVIEWED BY: James Amos	APPROVED: Brent Criser
PREP DATE: 4/9/2024		

Handwritten signature: James Amos 8.21-24

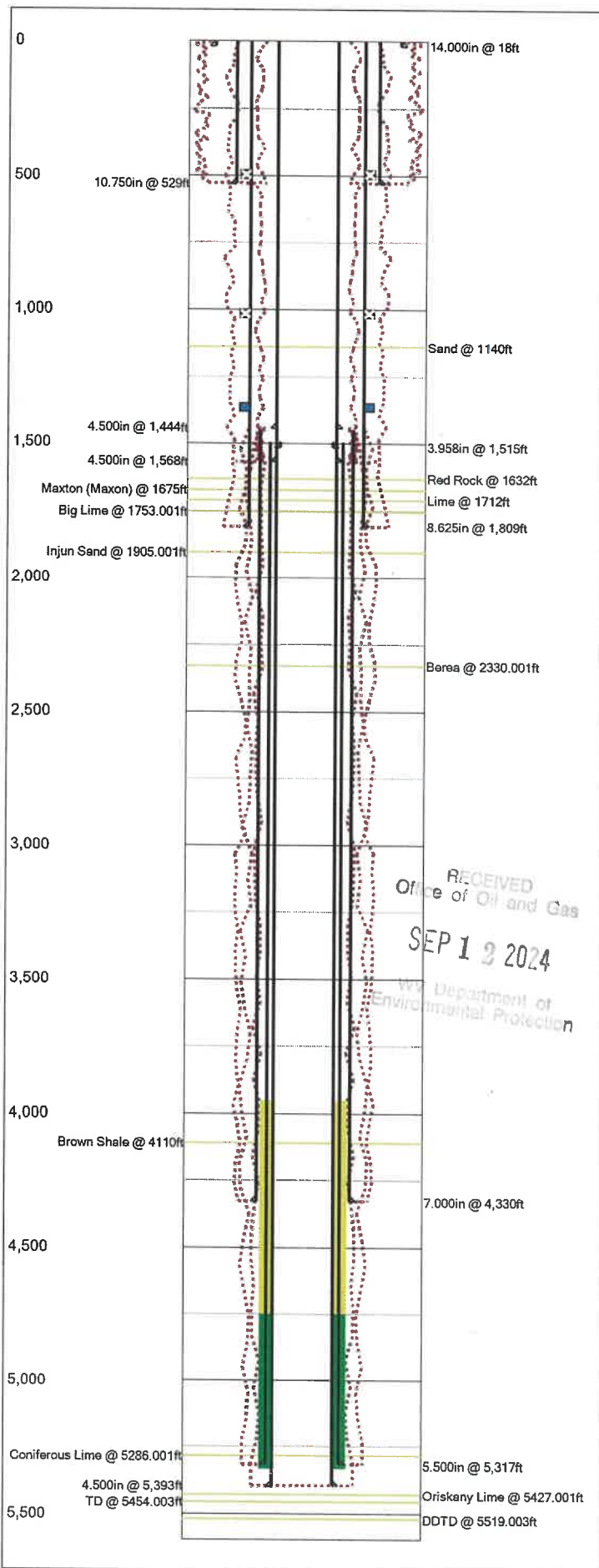
10/11/2024

4703901533W

Last Updated: 2/13/2024 12:02 PM



Field Name		Lease Name		Well No.		
Coco C		Coco C - 07324		07324		
County		State		API No.		
Kanawha		WV		47039015330000		
Version		Version Tag				
		0 Current Completion				
G.L. (ft)	K.B. (ft)	Sec.	Township/Block	Range/Survey		
5,496.0		72-65	Elk	030407324		
Operator		Well Status		Latitude	Longitude	
TransCanada		ACTIVE		38.4484	-81.4371	
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From		
PropNum		Spud Date		Comp. Date		
U6573		6/1/1950				
Additional Information						
Other1						
Coco C		0304		030407324		
Prepared By		Updated By		Last Updated		
				2/13/2024 12:02 PM		
Hole Summary						
Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments		
6/3/1950	14.750	0	529			
6/5/1950	10.625	0	1,809			
6/8/1950	8.750	1,448	4,330			
6/10/1950	7.875	1,495	5,317			
8/23/1996	6.250	0	1,444			
1/3/1957	6.250	1,444	1,568			
1/3/1957	6.250	1,568	5,393			
Tubular Summary						
Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
6/1/1950	Casing	14.000	42.00		0	18
6/3/1950	Casing	10.750	32.75		0	529
6/5/1950	Casing	8.625	28.00		0	1,809
6/8/1950	Casing	7.000	23.00		1,448	4,330
6/10/1950	Casing	5.500	15.50		1,495	5,317
8/23/1996	Casing	4.500	11.60	N-80	0	1,444
1/3/1957	Casing	4.500	12.60	J-55	1,444	1,568
1/3/1957	Casing	4.500	12.60	J-55	1,568	5,393
8/23/1996	Casing	3.958			1,495	1,515
Casing Cement Summary						
C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	8/5/1996	0	4.500	3,950	4,750	Partial Quality
	8/5/1996	0	4.500	4,750	5,331	Good Quality
Perforation Summary						
C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	
	8/15/1996	Squeezed		480	481	
	8/13/1996	Squeezed		1,000	1,001	
	8/13/1996	Open		1,350	1,351	
Formation Tops Summary						
Formation	Top (TVD ft)	Comments				
Sand	1,140	Comments: Water @1170'				



10/11/2024

4703901533W

FORM U 97-P C 8 D

United Fuel Gas Company
COMPANY

J.M.
Superintendent

1324

SERIAL WELL NO. 6573

LEASE NO. 4849

MAP SQUARE 72-65

CORD OF WELL NO. <u>6573</u> on the		CASING AND TUBING				TEST BEFORE SHOT
SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL			
S. P. Bare # 18 farm of <u>540</u> Acres				/10 of Water in.....inch		
in <u>Elk</u> District	<u>14#</u>	<u>42#</u>	<u>39'8"</u>	<u>18'1"</u>	<u>36</u> /10 of Merc. in <u>7" 22#</u> inch	
<u>Kanawha</u> County	<u>10-3/4"</u>	<u>32.75#</u>	<u>547'4"</u>	<u>529'4"</u>	Volume <u>9,549,000</u> Cu. ft.	
State of: <u>West Virginia</u>	<u>8-5/8"</u>	<u>28#</u>	<u>1962'0"</u>	<u>1809'0"</u>	TEST AFTER SHOT	
Field: <u>Clendenin</u>	<u>7" O.D.</u>	<u>23#</u>	<u>15250'3"</u>	<u>4350'1"</u>	/10 of Water in.....inch	
Rig Commenced <u>194</u>	<u>5-1/2"</u>	<u>15.5#</u>	<u>5539'6"</u>	<u>5294'7"</u>	/10 of Merc. in.....inch	
Rig Completed <u>194</u>	<u>2"</u>	<u>4.6#</u>	<u>5543'5"</u>	<u>5432'3"</u>	Volume.....Cu. ft.	
Drilling Commenced <u>6/19/50</u> <u>194</u>					Hours After Shot	
Drilling Completed <u>1-3-52</u> <u>194</u>					Rock Pressure <u>980#</u> <u>15-Fr.</u>	
Drilling to cost per foot					Date Shot.....	
Contractor is: <u>Liming & Summers</u>					Size of Torpedo.....	
Address: <u>Clendenin W. Va.</u>					Oil Flowed.....bbls. 1st 24 hrs.	
					Oil Pumped.....bbls. 1st 24 hrs.	
Driller's Name <u>T. C. Cook</u>					Well abandoned and	
<u>D. Phillips</u>					Plugged.....194	
Elevation: <u>1005.95</u>						

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Red Rock	0	15		
Sand	15	105		
Slate	105	155		
Sand	155	265		
Red Rock	265	325		
Slate	325	340		
Sand	340	490		
Slate	490	500		
Sand	500	575		
Slate & Shells	575	655		
Sand	655	755		
Slate & Shells	755	835		
d	835	880		
Slate & Shells	880	950		
Sand	950	990		
Slate & Shells	990	1140		
Salt Sand	1140	1540		Water at 1170'

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WV Department of
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WW-2A
(Rev. 6-14)

1.) Date: 08/19/2024
2.) Operator's Well Number Coco C 7324
State 47- County 039 Permit 01533
3.) API Well No.:

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT**

4) Surface Owner(s) to be served:
(a) Name JDM Realm LLC
Address 17197 Reid Hill Dr.
Culpepper, VA 22701
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Terry Urban
Address PO Box 1207
Clendenin, WV 25045
Telephone 304-549-5915
5) (a) Coal Operator
Name Not operated
Address _____
(b) Coal Owner(s) with Declaration
Name Not operated
Address _____
(c) Coal Lessee with Declaration
Name Not operated
Address _____

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TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

OR Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

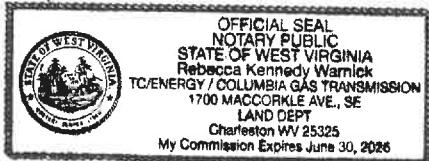
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

- _____ Personal Service (Affidavit attached)
- X _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator Columbia Gas Transmission, LLC
By: Maria Medvedeva
Its: Senior Wells Engineer Storage Technical Services
Address: 1700 MacCorkle Ave SE
Charleston WV 25314-1273
Telephone: 304-410-4313
Email: maria_medvedeva@tcenergy.com

Subscribed and sworn before me this 19th day of August, 2024

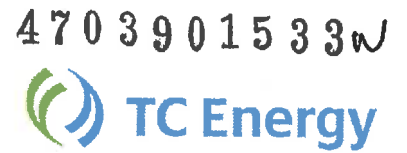
[Signature] Notary Public
My Commission Expires 6/30/24

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 depprivacyofficer@wv.gov

10/11/2024

Columbia Gas Transmission, LLC
1700 MacCorkle Ave., SE, Charleston, WV, USA 25314



August 19, 2024

JDM Realm LLC
17197 Reid Hill Dr.
Culpeper, VA 22701

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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 work on an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Coco C 7324 (API 47-039-01533).

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

7022 2410 0002 6396 3119

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
Culpeper, VA 22701	
OFFICIAL USE	
Certified Mail Fee	\$4.85
Extra Services & Fees (check box, add fee if applicable)	\$4.10
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$9.85
Total Postage and Fees	\$18.80
Postmark Here 0726 5 08/19/2024	
Sent To	JDM Realm LLC
Street and Apt. No., or PO Box No.	
City, State, ZIP+4®	CC 7324
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

www.tcenergy.com

10/11/2024

August 21, 2024, 10:13 am

4703901533P

Out for Delivery

CULPEPER, VA 22701
August 21, 2024, 8:46 am

Arrived at Post Office

CULPEPER, VA 22701
August 21, 2024, 8:35 am

Arrived at USPS Regional Destination Facility

DULLES VA DISTRIBUTION CENTER
August 21, 2024, 1:24 am

Arrived at USPS Regional Origin Facility

CHARLESTON WV PROCESSING CENTER
August 19, 2024, 8:13 pm

Departed Post Office

CHARLESTON, WV 25304
August 19, 2024, 4:37 pm

USPS in possession of item

CHARLESTON, WV 25304
August 19, 2024, 2:09 pm

[Hide Tracking History](#)

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[What Do USPS Tracking Statuses Mean?](https://faq.usps.com/s/article/Where-is-my-package) (https://faq.usps.com/s/article/Where-is-my-package)

Text & Email Updates



USPS Tracking Plus®



Product Information



See Less ^

Track Another Package

Enter tracking or barcode numbers

10/11/2024

SURFACE OWNER WAIVER

County Kanawha

Operator

Columbia Gas Transmission LLC

Operator well number

Coco C 7324

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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

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WV Department of
Environmental Protection

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 **FIFTEEN (15) 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 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;
- 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.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

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 Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ___ including a work order on Form WW2-B, a survey plat, WW-9, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature Date _____

Company Name _____
By _____
Its _____ Date _____

Print Name

Signature Date _____

10/11/2024

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Kanawha
Operator Columbia Gas Transmission LLC

* coal not operated

Operator's Well Number Coco C 7324

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

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Office of Oil and Gas
SEP 12 2024
WV Department of
Environmental Protection

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature Date _____

Company Name
By _____
Its _____ Date _____

Signature Date _____

10/11/2024

Columbia Gas Transmission, LLC
1700 MacCorkle Ave., SE, Charleston, WV, USA 25314

4703901533W



September 10, 2024

JDM Realm LLC
17107 Reid Hill Dr.
Culpepper, VA 22701

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Environmental Protection

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to work on an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Coco C 7324 (API 47-039-01533).

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

7022 2410 0002 6396 3171

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
Culpepper, VA 22701	
OFFICIAL USE	
Certified Mail Fee \$4.85	0726 5 Postmark Here 09/10/2024
Extra Services & Fees (check box, add fees as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$0.00	
<input type="checkbox"/> Return Receipt (electronic) \$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery \$0.00	
<input type="checkbox"/> Adult Signature Required \$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery \$0.00	
Postage \$9.85	
Total Postage and Fees \$18.80	
Sent To JDM Realm LLC	
Street and Apt. No., or PO Box No.	
City, State, ZIP+4®	cc 7324
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

www.tcenergy.com

10/11/2024


4703901533W

COCO E 7324

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Office of Oil and Gas

SEP 19 2024

WV Department of
Environmental Protection

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> ■ 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. 	<p>A. Signature <input checked="" type="checkbox"/> <i>John D. Mah</i> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p>																
<p>1. Article Addressed to:</p> <p>JDM Realm LLC 17107 Reid Hill Dr Culpeper, VA 22701</p>  <p>9590 9402 7630 2122 5683 23</p>	<p>B. Received by (Printed Name) C. Date of Delivery <i>Joseph S Meadows</i> <i>9/13/24</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>																
<p>2. Article Number (Transfer from service label) 7022 2410 0002 6396 3171</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Collect on Delivery Restricted Delivery		<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®																
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™																
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery																
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™																
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<input type="checkbox"/> Collect on Delivery Restricted Delivery																	
<input type="checkbox"/> Insured Mail																	
<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)																	
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053</p>	<p>Domestic Return Receipt</p>																

10/11/2024

Tracking Number:

Remove X

70222410000263963119

Copy

Add to Informed Delivery (<https://informedelivery.usps.com/>)

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Office of Oil and Gas
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WV Department of
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Latest Update

We were unable to deliver your package at 9:32 am on September 7, 2024 in CHARLESTON, WV 25314 because the business was closed. We will redeliver on the next business day. No action needed.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Delivery Attempt

Redelivery Scheduled for Next Business Day

CHARLESTON, WV 25314

September 7, 2024, 9:32 am

Document lost in transit back to sender

Feedback

In Transit to Next Facility

September 6, 2024

Arrived at USPS Regional Facility

CHARLESTON WV PROCESSING CENTER

September 5, 2024, 10:58 am

In Transit to Next Facility

September 5, 2024, 7:45 am

In Transit to Next Facility

September 5, 2024, 5:00 am

Departed USPS Regional Facility

WASHINGTON DC DISTRIBUTION CENTER

10/11/2024

September 5, 2024, 2:45 am

4703901533W

Arrived at USPS Regional Facility

WASHINGTON DC DISTRIBUTION CENTER
September 4, 2024, 9:25 am

Departed USPS Regional Facility

DULLES VA DISTRIBUTION CENTER
September 4, 2024, 2:01 am

Arrived at USPS Regional Facility

DULLES VA DISTRIBUTION CENTER
September 1, 2024, 3:01 am

Departed USPS Regional Facility

MERRIFIELD VA DISTRIBUTION CENTER
September 1, 2024, 2:24 am

Arrived at USPS Regional Destination Facility

MERRIFIELD VA DISTRIBUTION CENTER
August 31, 2024, 9:39 pm

Out for Delivery

CULPEPER, VA 22701
August 31, 2024, 8:45 am

Arrived at Post Office

CULPEPER, VA 22701
August 31, 2024, 8:34 am

Arrived at USPS Regional Facility

DULLES VA DISTRIBUTION CENTER
August 31, 2024, 3:00 am

Arrived at USPS Regional Destination Facility

MERRIFIELD VA DISTRIBUTION CENTER
August 29, 2024, 7:16 am

No Such Number

CULPEPER, VA 22701
August 22, 2024, 4:04 am

No Such Number

CULPEPER, VA 22701

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Office of Oil and Gas
SEP 13 2024
WV Department of
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10/11/2024

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Kanawha Valley Bank, Trustee	United Fuel Gas Company	Storage Lease - 1004849-000	138 / 362

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:
By: Its:

Columbia Gas Transmission, LLC
 Maria Medvedeva
 Senior Wells Engineer Storage Technical Services



10/11/2024

WW-2B1
(5-12)

N/A

Well No. 4703901533W
Coco C 7324

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name _____
Sampling Contractor _____

Well Operator Not applicable - existing underground natural gas storage well
Address _____

Telephone _____

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

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10/11/2024

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Columbia Gas Transmission, LLC OP Code 307032

Watershed (HUC 10) Mile Creek a Tributary of Blue Creek 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 No

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A

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 system be used? If so, describe: yes - steel flow line to tanks

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Fresh water

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? NaCl, biocide, soda ash, polymer, starch, CaCO3, KCl, HCl

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? To be managed by Waste Management and US Ecology for disposal at permitted landfill

Permittee shall provide written notice to the Office of Oil and Gas 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 obtaining 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.

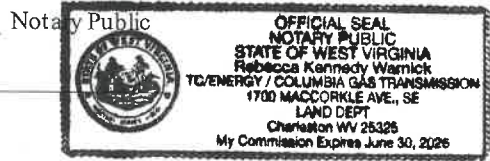
Company Official Signature [Signature]

Company Official (Typed Name) Maria Medvedeva

Company Official Title Senior Wells Engineer Storage Technical Services

Subscribed and sworn before me this 19th day of August, 2024

[Signature]



My commission expires 6/30/24

10/11/2024

Proposed Revegetation Treatment: Acres Disturbed < 1.0 Prevegetation pH 6-7

Lime 2 Tons/acre or to correct to pH 7-8

Fertilizer type 10-10-10

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	29
		Birdsfoot Trefoil (Empire)	9
		Annual Rye	12

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

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SEP 13 2024

Department of
Environmental Protection

Plan Approved by:

[Handwritten Signature]

Comments:

Title:

Inspect Well E (AS)

Date:

8-21-24

Field Reviewed?

Yes

No

10/11/2024

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): Mile Creek a Tributary of Blue Creek Quad: Blue Creek, WV

Farm Name: U6573

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

No fluids planned to be discharged. No fertilizer will be stored on site. Fuel, oil, and lubricants will be stored on site, but located within secondary containment. Accidental spills from construction equipment, well treatment fluids, and produced well fluids are the only possible source of contamination to groundwater. Drilling and flowback fluids to be stored in tanks. All accumulated fluids to be hauled off site to UIC disposal facility.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

All construction and well servicing equipment will be monitored and inspected daily for leaks. Tanks to be monitored daily for leaks. Spill kits will be on site.

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WV Department of
Environmental Protection

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Mile Creek is at a distance of 0.38 miles S.

The Trail Kitchen WV9908037 is the closest Well Head Protection Area at a distance of 10.1 miles SE from discharge area.

4. Summarize all activities at your facility that are already regulated for groundwater protection.

N/A

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

N/A

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.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

During routine tailgate and JSA meetings groundwater protection will be a topic of discussion.

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WV Department of
Environmental Protection

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

No fertilizer will be stored on site. Fuel, oil, and lubricants will be stored on site, but located within secondary containment. Spills from construction equipment, well treatment fluids, and produced well fluids are the only possible source of contamination to groundwater.

All construction and well servicing equipment will be monitored and inspected daily for leaks or spills.

Signature: *Wanda*

Date: 08/19/2024

8/27/24, 3:29 PM

State of West Virginia Mail - Fwd: For Permit Application Payments



Null, Gregory L <gregory.l.null@wv.gov>

Fwd: For Permit Application Payments

1 message

Whitlock, Renae D <renae.d.whitlock@wv.gov>
To: Gregory L Null <gregory.l.null@wv.gov>

Tue, Aug 27, 2024 at 3:08 PM

Correction below:

----- Forwarded message -----

From: **Whitlock, Renae D** <renae.d.whitlock@wv.gov>
Date: Tue, Aug 27, 2024 at 3:07 PM
Subject: Re: For Permit Application Payments
To: Null, Gregory L <gregory.l.null@wv.gov>

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SEP 1 2 2024

WV Department of
Environmental Protection

The funding is listed below:

\$300 - 3322/9254/6869
\$2000 - 3323/9280/6869

Thank you,
Renae

On Tue, Aug 27, 2024 at 3:04 PM Null, Gregory L <gregory.l.null@wv.gov> wrote:
Can you provide the funding to deposit these payments

----- Forwarded message -----

From: **Maria Medvedeva** <maria_medvedeva@tcenergy.com>
Date: Tue, Aug 27, 2024 at 3:02 PM
Subject: For Permit Application Payments
To: Gregory.l.null@wv.gov <Gregory.l.null@wv.gov>

Gregory, good afternoon,

Please see below a table summary of the well permit applications that I would like to submit a payment for and the amount of each permit fee. This will go out to the WVDEP Office of Oil and Gas, attention Jeff McLaughlin. I provided the Visa details over the phone just now, last 4 of the card are -4694.

STORAGE FIELD	WELL #	API Permit #	CONCISE SCOPE of WORK	Amount for Payment
Coco C	7324	47-039-01533-0000	Obtain well logs, coil tubing cleanout and acid stimulation, Frac	\$ 900.00
Coco C	7354	47-039-01976-0000	Pull tubing, log, coil tubing cleanout and acid stimulation, re-run tubing	\$ 900.00

4703901533W

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Office of Oil and Gas

SEP 19 2024

WV Department of
Environmental Protection

WV Dept of Env. Prot.
601 57th St SE
Charleston, WV 25304
304-926-0499

SALE

MID: 5993
TID: 00E30710 REF#: 00000002
Bank ID: 000000
Batch #: 1014 RRN: 241138629984
08/28/24 08:19:45
AVR: Z CVC: U
Invoice #: 7331

APPR CODE: 09596S
VISA Manual CP
*****4694 ***

AMOUNT \$900.00

APPROVED

SIGNATURE NOT REQUIRED

I AGREE TO PAY ABOVE TOTAL AMOUNT
IN ACCORDANCE WITH CARD ISSUER'S
AGREEMENT
(MERCHANT AGREEMENT IF CREDIT VOUCHER)
RETAIN THIS COPY FOR STATEMENT
VERIFICATION

Thank You
Please Come Again

MERCHANT COPY

WV Dept of Env. Prot.
601 57th St SE
Charleston, WV 25304
304-926-0499

SALE

MID: 5993
TID: 00E30710 REF#: 00000003
Bank ID: 000000
Batch #: 1014 RRN: 241192630042
08/28/24 08:20:42
AVR: Z CVC: U
Invoice #: 7331

APPR CODE: 08806S
VISA Manual CP
*****4694 ***

AMOUNT \$900.00

APPROVED

SIGNATURE NOT REQUIRED

I AGREE TO PAY ABOVE TOTAL AMOUNT
IN ACCORDANCE WITH CARD ISSUER'S
AGREEMENT
(MERCHANT AGREEMENT IF CREDIT VOUCHER)
RETAIN THIS COPY FOR STATEMENT
VERIFICATION

Thank You
Please Come Again

MERCHANT COPY

WV Dept of Env. Prot.
601 57th St SE
Charleston, WV 25304
304-926-0499

SALE

MID: 5993
TID: 00E30710 REF#: 00000004
Bank ID: 000000
Batch #: 1014 RRN: 741041630101
08/28/24 08:21:41
AVR: Z CVC: U
Invoice #: 7331

APPR CODE: 00297S
VISA Manual CP
*****4694 ***

AMOUNT \$100.00

APPROVED

SIGNATURE NOT REQUIRED

I AGREE TO PAY ABOVE TOTAL AMOUNT
IN ACCORDANCE WITH CARD ISSUER'S
AGREEMENT
(MERCHANT AGREEMENT IF CREDIT VOUCHER)
RETAIN THIS COPY FOR STATEMENT
VERIFICATION

Thank You
Please Come Again

MERCHANT COPY

10/11/2024

4703901533W

WV DEP Reclamation Plan - Site Detail

Coco C well 7324 (API 47-039-01533)

- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and surface material to be applied as needed



Legend

- Coco C - 07324
- CWA CC 7324

10/11/2024



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WV DEP Reclamation Plan - Overview

Coco C well 7324 (API 47-039-01533)

- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and surface material to be applied as needed

Legend

-  Coco C - 07324
-  CWA CC 7324

10/11/2024

Existing access road

Coco C - 07324

Walnut Creek

Mile Creek

Blue Creek Rd

Mile Creek

Mile Creek

Google Earth

Image Landsat / Copernicus

3000 ft



4703901533W

(ROMANCE) mytopo
081° 27' 22.6724" W
038° 28' 12.7829" N

BLUE CREEK QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES (CLIO)

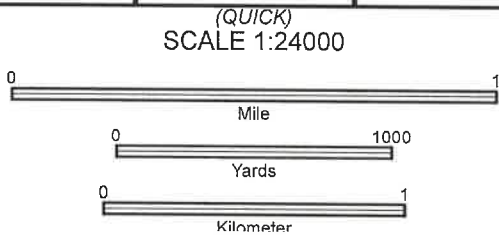
(KETTLE)

081° 25' 04.2044" W
038° 28' 12.7829" N



(CHARLESTON EAST)
Produced by Trimble Terrain Navigator Pro
Topography based on USGS 1:24,000
Maps
North American 1983 Datum (NAD83)
To place on the predicted North American
1927 move the projection lines 11M N and
14M E

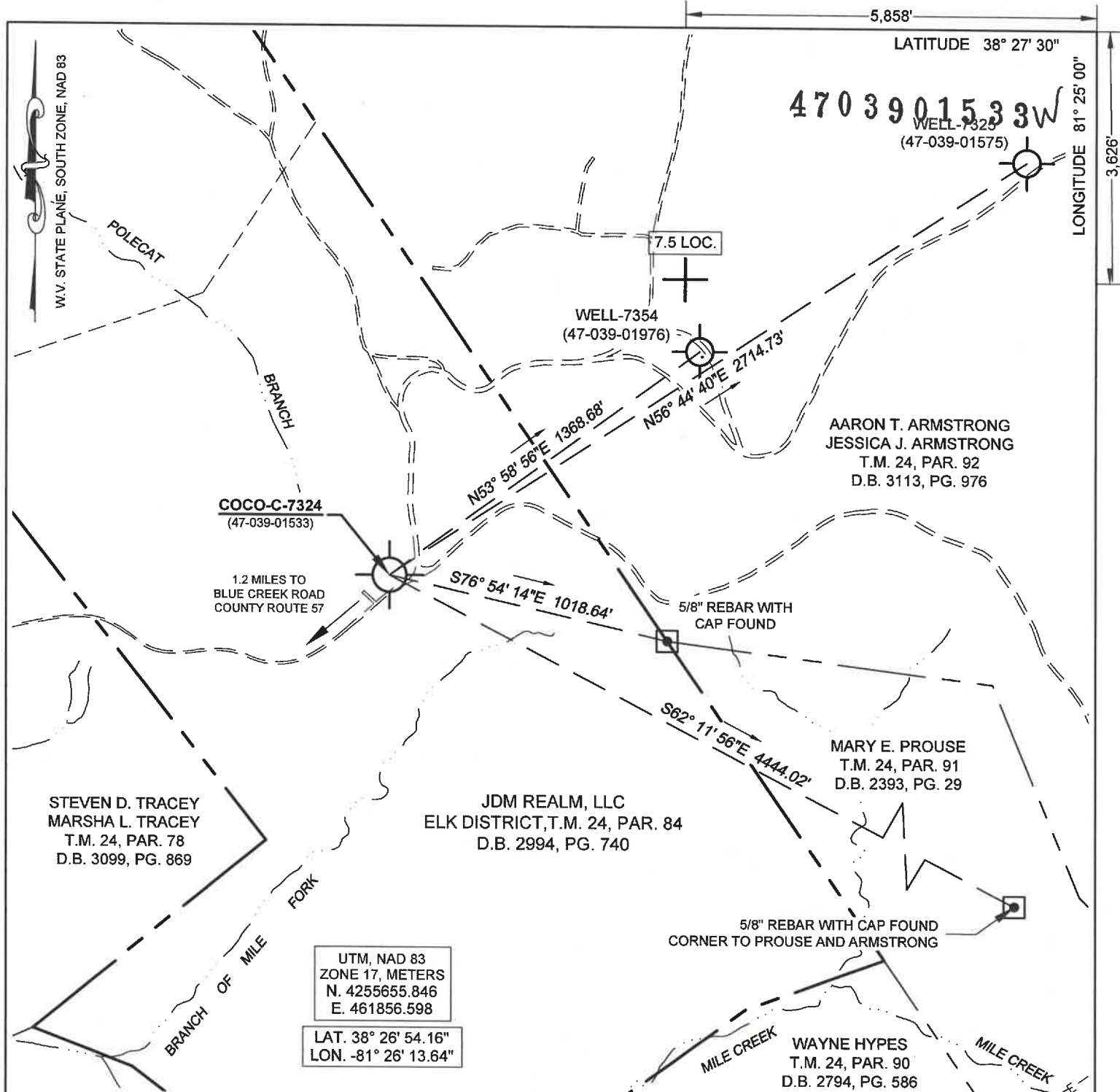
Declination
★
MGN
GN 0.27° W
MN 7.90° W



CONTOUR INTERVAL 20 FT

Printed: Tue Jun 16, 2024
081° 25' 04.2044" W
038° 25' 35.0538" N
(MAMMOTH)
SEP 12 2024
38081-D3-TM-024
BLUE CREEK, WV
JAN 1, 1977

10/11/2024

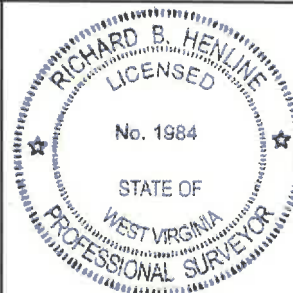


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. **2401-2345-009**
 DRAWING No. **2401-2345-009**
 SCALE **1 INCH = 500 FEET**
 MINIMUM DEGREE OF ACCURACY **1:200**
 PROVEN SOURCE OF ELEVATION **TRIMBLE R12 GPS UNIT**

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED) *Richard B. Henline*
RICHARD B. HENLINE PS #1984



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 NITRO, WV



DATE **AUGUST 16** 20**24**
 OPERATOR'S WELL No. **7324**
 API WELL No. **47 039 - 01533**

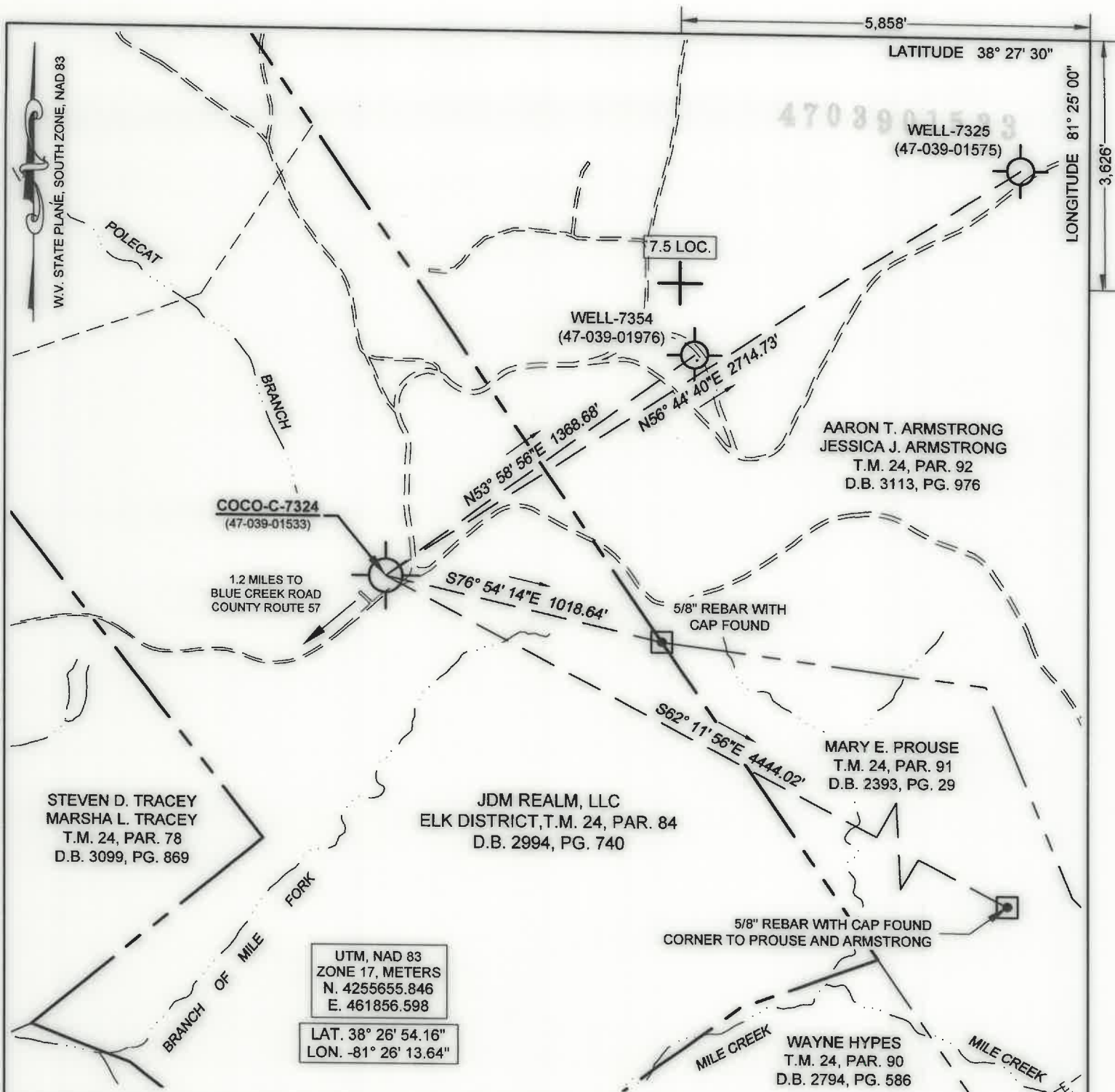
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION **1006.7'** WATER SHED **MILE CREEK A TRIBUTARY OF BLUE CREEK**
 DISTRICT **ELK** COUNTY **KANAWHA**
 QUADRANGLE **BLUE CREEK, WV**

SURFACE OWNER **JDM REALM, LLC** ACREAGE **328.77**
 O&G ROYALTY OWNER **KANAWHA VALLEY BANK, TRUSTEE**
 LEASE ACREAGE **343 ACRES** LEASE NO. **1004849-000** **10/11/2024**

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE
 STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) **OBTAIN WELL LOGS, CTCO, FRAC**
 PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION **ORISKANY** ESTIMATED DEPTH **5496**
 WELL OPERATOR **COLUMBIA GAS TRANSMISSION, LLC** DESIGNATED AGENT **MARIA MEDVEDEVA**
 ADDRESS **PO BOX 1273, CHARLESTON, WV 25325-1273** ADDRESS **1700 MACCORKLE AVE, SE CHARLESTON, WV 25314**

FORM IV-b (8-18)



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. **2401-2345-009**
 DRAWING No. **2401-2345-009**
 SCALE **1 INCH = 500 FEET**
 MINIMUM DEGREE OF ACCURACY **1:200**
 PROVEN SOURCE OF ELEVATION **TRIMBLE R12 GPS UNIT**

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED)

Richard B. Henline
RICHARD B. HENLINE PS #1984



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 NITRO, WV



DATE **AUGUST 16** 20**24**
 OPERATOR'S WELL No. **7324**
 API WELL No.

WELL TYPE: OIL ___ GAS **X** LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ **X** DEEP **X** SHALLOW ___
 STATE COUNTY PERMIT **47 039 - 01533**

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FUKM IV-b (8-78)