



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

Friday, September 25, 2026
WELL WORK PERMIT
Vertical / Re-Work

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for COCO A 7077
47-039-01236-00-00

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.

A handwritten signature in black ink, reading 'Jason Harmon', is written over a horizontal line.

H. Jason Harmon
Chief

Operator's Well Number: COCO A 7077
Farm Name: MIKE ROSS INC.
U.S. WELL NUMBER: 47-039-01236-00-00
Vertical Re-Work
Date Issued: 9/25/2026

Promoting a healthy environment.

09/25/2026

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 with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.
9. 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.

09/25/2026

4703501236

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

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

2) Operator's Well Number: Coco A 7077 3) Elevation: 778.3

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: 5105

6) Proposed Total Depth: 5105 Feet Formation at Proposed Total Depth: Oriskany

7) Approximate fresh water strata depths: 420'

8) Approximate salt water depths: 718', 753', 1400'

9) Approximate coal seam depths: None reported by driller

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

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

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

Run HRVRT log, perform coil tubing cleanout and acid stimulation, fracture stimulate if needed.

13) CASING AND TUBING PROGRAM

*existing

TYPE	SPECIFICATIONS			FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor						
Fresh Water	10-3/4		32.8		1142	no record
Coal						
Intermediate	7		22		4938	no record
Production	5-1/2	L-80	17		4959	100 sx
Production						
Production						

Packers: Kind: _____
Sizes: _____
Depths Set _____

09/25/2026

WW-2A
(Rev. 6-14)

1). Date: 08/06/2024

2.) Operator's Well Number Coco A 7077

	State	County	Permit
3.) API Well No.:	47-	039	- 01236

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 <u>Mike Ross Inc</u> Address <u>PO Box 219</u> <u>Coalton, WV 26257</u> (b) Name _____ Address _____ (c) Name _____ Address _____	5) (a) Coal Operator Name <u>Not operated</u> Address _____ (b) Coal Owner(s) with Declaration Name <u>Not operated</u> Address _____ Name _____ Address _____ (c) Coal Lessee with Declaration Name <u>Not operated</u> 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)

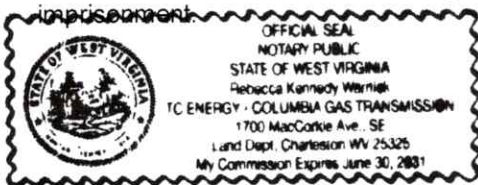
X Certified Mail (Postmarked postal receipt attached)

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



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 6th day of July, 2026

My Commission Expires

Oil and Gas Privacy Notice

Notary Public

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

09/25/2026

Columbia Gas Transmission, LLC

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

2026, August 6th

Mike Ross Inc
PO Box 219
Coalton, WV 26257

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 A 7077 (API 47-039-01236).

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
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Coalton, WV 26257

Certified Mail Fee \$5.55

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$4.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$12.90

Total Postage and Fees \$23.10

Sent To Mike Ross Inc
Coalton, WV
City, State, ZIP+4® CA 7077

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 2410 0002 6396 3300

OFFICIAL
KANAWHA CITY STATION
AUG 06 2026
CHARLESTON, WV 25304

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:

Mike Ross Inc
PO Box 219
Coalton, WV 26257



9590 9402 7630 2122 5684 46

2. Article Number (Transfer from service label)

7022 2410 0002 6396 3300

COMPLETE THIS SECTION ON DELIVERY

A. Signature

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

Amber Graham

C. Date of Delivery

8-8-26

D. Is delivery address different from item 1?

If YES, enter delivery address below:

- ☐ Yes
☐ No

3. Service Type

- | | |
|--|---|
| ☐ Adult Signature | ☐ Priority Mail Express® |
| ☐ Adult Signature Restricted Delivery | ☐ Registered Mail™ |
| ☐ Certified Mail® | ☐ Registered Mail Restricted Delivery |
| ☐ Certified Mail Restricted Delivery | ☐ Signature Confirmation™ |
| ☐ Collect on Delivery | ☐ Signature Confirmation Restricted Delivery |
| ☐ Collect on Delivery Restricted Delivery | |

all Restricted Delivery

SEP 08 2026

WV Department of
Environmental Protection

09/25/2026

SURFACE OWNER WAIVER

County Kanawha

Operator

Columbia Gas Transmission LLC

Operator well number

Coco A 7077

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

SEP 08 2026

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	_____ Date
_____ Print Name		_____ Signature		_____ Date

09/25/2026

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

* coal not operated

County KanawhaOperator Columbia Gas Transmission LLCOperator's Well Number Coco A 7077

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

SEP 08 2026
WV Department of
Environmental Protection

SEP 08 2026

WAIVER

WV Department of
Environmental Protection

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.

_____	Date _____	Company Name _____
Signature		By _____
		Its _____
		_____ Date _____
		Signature _____ Date _____

09/25/2026

WW-2A1
(Rev. 1/11)

Operator's Well Number Coco A 7077

**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
W.A. Phillips et al	United Fuel Gas Company	Storage Lease - 1014335-000	123 / 91

**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

August 14th
8-14-26

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

09/25/2026

WW-2B1
(5-12)

Well No. Coco A 7077

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 contractor 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.

09/25/2026

WW-9
(5/16)API Number 47 - 039 - 01236
Operator's Well No. Coco A 7077

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 307032Watershed (HUC 10) Blue Creek Quadrangle Blue Creek, WVDo 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/AWill 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 tanksDrilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Fresh water-If oil based, what type? Synthetic, petroleum, etc. N/AAdditives to be used in drilling medium? NaCl, biocide, soda ash, polymer, starch, CaCO₃, KCl, HClDrill 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.

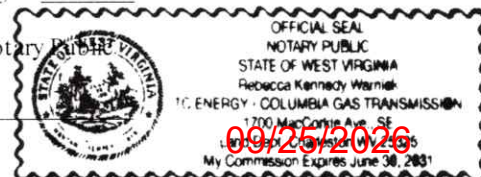
Company Official Signature *[Signature]*
 Company Official (Typed Name) Maria Medvedeva
 Company Official Title Senior Wells Engineer Storage Technical Services

RECEIVED
 OFFICE OF OIL AND GAS
 SEP 08 2026

WV Department of
 Environmental Protection

Subscribed and sworn before me this 6th day of July, 20 26My commission expires 6/30/31

Notary Public



Form WW-9

Operator's Well No. Coco A 7077Proposed Revegetation Treatment: Acres Disturbed < 1.0 Prevegetation pH 6-7Lime 2 Tons/acre or to correct to pH 7-8Fertilizer type 10-10-10Fertilizer amount 600 lbs/acreMulch hay or straw @ 2 Tons/acreSeed MixturesTemporaryPermanent

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.

Plan Approved by: 

Comments: _____

REC'D
Office of Oil and Gas

SEP 08 2026

WV Department of
Environmental Protection

Title: Inspector Oil & GasDate: 8-14-26

Field Reviewed?

(☒) Yes(☐) No

09/25/2026

WW-9- GPP
Rev. 5/16

Page _____ of _____
API Number 47 - 039 - 01236
Operator's Well No. Coco A 7077

**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): Blue Creek

Quad: Blue Creek, WV

Farm Name: W. A. Phillips et al

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.

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

Blue Creek is at a distance of 0.31 miles N.

The Trail Kitchen WV9908037 is the closest Well Head Protection Area at a distance of 8.21 miles E from discharge area.

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

N/A

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Office of Oil and Gas

SEP 08 2026

WV Department of
Environmental Protection

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

09/25/2026

WW-9- GPP
Rev. 5/16

Page _____ of _____
API Number 47 - 039 - 01236
Operator's Well No. Coco A 7077

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.

RECEIVED
Office of Oil and Gas

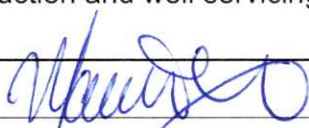
SEP 08 2026

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: 

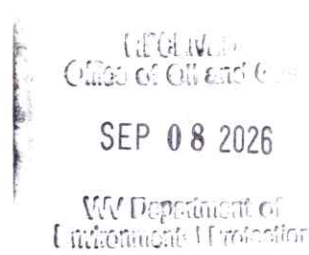
Date: 08/06/2026

09/25/2026

WELL JOB PLAN				STS Well Engineering & Technology				PAGE 1		DATE JOB PREPARED: 2/10/2025	
Objective: Deliverability Restoration								WORK TYPE:			
TITLE: HRVRT, CTCO, frac if needed						LEASE #: 14335					
FIELD: Coco A			WELL ID: 7077			API: 47-039-01236					
STATE: WV			SHL (Lat/ Long)		38.392328	-81.414489		CNTY: Kanawha			
DIST/TWP: Elk			BHL (Lat/Long)		38.392328	-81.414489		WELLLINE #: X52AW7077			
EXISTING TUBULAR CONFIGURATION	OD (inches)	WEIGHT (PPF)	GRADE	THREAD	DEPTH (ft)		FORMATION	NOTES	TOP (ft)	BOTTOM (ft)	
					TOP	BOTTOM					
Conductor							Slate	W	678	994	
Surface	10 3/4	32.8			0	1142	Big Lime	W / G	1317	1470	
Intermediate	7	22.0			0	4938	Con Lime		4916	5021	
Production	5 1/2	17.0	L-80	LTC	0	1710	Oriskany	G	5021	5044	
Production	5 1/2	17.0			1710	4959	TD		5044	5044	
Tubing	removed						DDTD		5105	5105	
Perforations							water 420 / 718 / 753 / 1400				
Wellhead											
CEMENT INFO							TOC (ft)		ELEVATIONS (ft)		
10 3/4	No record of gel or cement						-		KB-GL:		
7	No record of gel or cement						-		KB-RF:		
5 1/2	Cemented with 100 sx						3270		GL:		
MISC INFORMATION							DIRECTIONAL WELL PROFILE (as applicable)				
REFER TO WELL SUMMARY RPT, WBD for Wellbore Schematic, ELOG, etc tabs in this workbook for additional information							Vertical well profile				
Kill Fluid Calculation * Note that kill fluid calculation tabs are hidden Maximum calculated bottom-hole pressure (reference only): 2195 psig * input Maximum storage field surface pressure (MAOP): 1900 psig * input Well TD: 5105 ft TVD * input Top of storage zone: 5021 ft TVD * input Calculated maximum BH pressure at top of zone: 2166 psig * output Kill Fluid (TOZ) Kill fluid density at top of zone @: 150 psi OB 8.87 ppg * output Kill Fluid (TOZ) Proposed depth of BP: 5021 ft TVD * input Calculated maximum BH pressure at depth of BP: 2166 psig * output Kill Fluid (BP) Kill fluid density at depth of BP @: 150 psi OB 8.87 ppg * output Kill Fluid (BP) Required minimum kill fluid density: 8.9 ppg * greater of the two											
Current AOF: 39,055 MCF/D Top historical AOF: 57,324 MCF/D Last MVRT: Baker 8/2/2016 HRVRT indicates no metal loss features in excess of 20%. SBT: Western Atlas 08/13/1997 CBL indicates good cement between 5-1/2" x 7" from 4940' to 3300', partial quality through to 3270', stringers to free pipe above that.							RECEIVED Office of Oil and Gas SEP 08 2026 WV Department of Environment & Protection				
PROPOSED YEAR: 2027			ERCB PERMIT REQD: YES _____ NO <u>X</u> _____			(Internal) PDS Required: YES _____ NO _____					
PREPARED BY: Maria Medvedeva			DT. APPLIED: ISSUED:			APPROVED: Brent Criser					
PREP DATE: 2/10/2025											

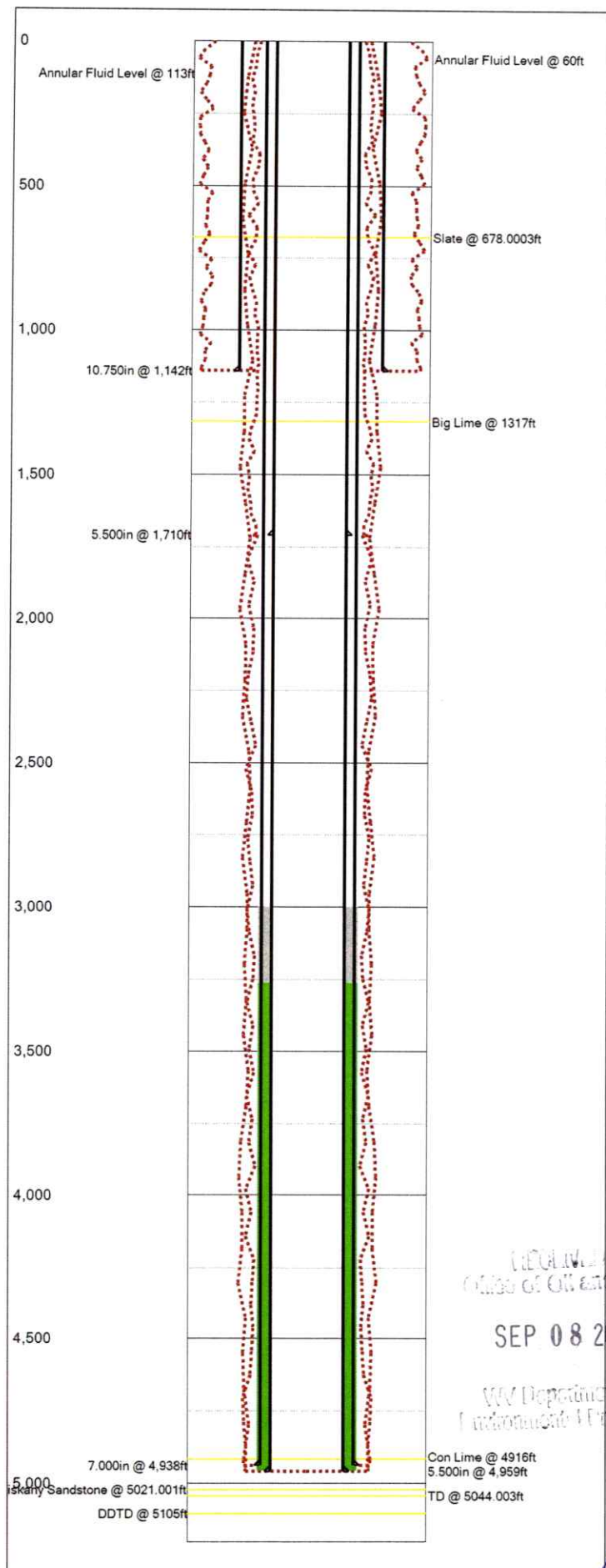
Aug 14 26

09/25/2026

WELL JOB PLAN		STS Well Engineering & Technology		PAGE 2	DATE JOB PREPARED: 2/10/2025
Objective: Deliverability Restoration					
TITLE: HRVRT, CTCO, frac if needed				WORK TYPE:	
FIELD: Coco A	WELL: 7077				
STAT: WV	SHL (Lat/Long): 38.392328 -81.414489	API: 47-039-01236			
TWP: Elk	BHL (Lat/Long): 38.392328 -81.414489	CNTY: Kanawha			
PROCEDURE					
NOTES: Performance continues to decline based on the last (2017) well test. FW wash had only a minor positive effect on performance. 1997 stimulation was very successful in deliverability restoration - stimulated Oriskany with N2 assist Deltafrac using 489 bbls water, 133 mscf N2 and 27,800 lbs 20/40 sand. Maintain communication with WVDEP Inspector during well operations to ensure compliance with WV Code.					
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 log. RD loggers. - Request 1-day turnaround on HRVRT analysis. Condition of 5-1/2" 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 4900' 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 (4959 - 5105') until 1000 gals are gone. Pull up into casing and flow well until relatively dry. RBIH to TD and spot 1000 gals 15% HCl acid with mutual solvent. Pull up to 3000' 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, send report to engineering. If CTCO flowtest results dictate and well condition allows - 17 Fracture stimulate based on REG recommendations and confirmed 5-1/2" casing condition from new HRVRT log. - Hydraulic isolation between the bottom of the 7" csg and 5-1/2" is good based on the historic SBL record from 1997. 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.					
					
PREPARED BY: Maria Medvedeva		REVIEWED BY: James Amos		APPROVED: Brent Criser	
PREP DATE: 2/10/2025					

Amy W. Miller
8-14-26

09/25/2026



Last Updated: 4/26/2024 12:02 PM



Field Name		Lease Name		Well No.	
Coco A		Coco A - 07077		07077	
County		State		API No.	
Kanawha		WV		47039012360000	
Version	Version Tag				
0		Current Completion			
G.L. (ft)	K.B. (ft)	Sec.	Township/Block		Range/Survey
5,105.0	5,105.0	72-61	Elk		030207077
Operator		Well Status		Latitude	Longitude
TransCanada		ACTIVE		38.3923	-81.4145
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From	
PropNum			Spud Date		Comp. Date
W. A. Phillips et al			12/1/1946		
Additional Information					
Coco A - 7077- (Charleston, WV) - I-77 N, I-79 N to exit 9 (Elkview). Take off ramp, turn right (S) on CR 43, go to 4 way stop. Turn left (N) on US 119, go to Blue Creek, turn right (S) on CR 57 (Blue Creek Rd.). Cross Elk River Bridge, continue S on CR 57 to Columbia Gas compressor station. Go either on drive through compressor station lot, or on road around fenced lot to back gate. Take lease road up the hill and follow road to well					
Other1		Other2		Other4	
Coco A		0302		030207077	
Prepared By		Updated By		Last Updated	
				4/26/2024 12:02 PM	

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
12/1/1946	14.750	0	1,142	
12/2/1946	8.750	0	4,938	
8/18/1997	7.875	0	1,710	
6/25/1950	7.875	1,710	4,959	

Tubular Summary

Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
12/1/1946	Surface Pipe	10.750			0	1,142
12/2/1946	Casing	7.000	22.00		0	4,938
8/18/1997	Casing	5.500	17.00	N-80	0	1,710
6/25/1950	Casing	5.500	17.00		1,710	4,959

Casing Cement Summary

C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	8/13/1997	0	5.500	3,000	3,263	Free Pipe
	8/13/1997	0	5.500	3,263	4,955	Good Quality

Formation Tops Summary

Formation	Top (TVD ft)	Comments
Slate	678	Comments: shows - water @ 420' Comments: shows - Water @ 718', 753'
Big Lime	1,317	Comments: shows - water @ 1400' / gas @ 1475'
Con Lime	4,916	
Oriskany Sandstone	5,021	Comments: shows-5037'-5044 : 4,635 mcf/d
TD	5,044	
DDTD	5,105	

X-52-7077

6543 UFG

F-20746

Alfred Phillips

Joe Rubin

Elk District, Kanawha County, W. Va.

Map Square 72-61

Commenced

Completed 12-13-46

Elevation 779'

Surface	0	5
Gravel	5	22
Sand	22	24
Slate	24	75
Sand	75	144
Slate	144	166
Sandy Lime	166	185
Slate	185	188
Sand	188	290
Slate & Shells	290	343
Sandy Lime	343	370
Slate	370	462
Sand	462	475
Slate	475	480
Sandy Lime	480	495
Slate & Shells	495	520
Sand	520	540
Lime	540	607
Slate	607	613
Slate	613	643
Lime Shells	643	655
Slate	655	665
Salt Sand	665	678
Slate & Cave	678	994
Sand	994	1000
Red Rock	1000	1084
Slate & Shells	1084	1140
Red Rock	1140	1151
Slate & Shells	1151	1167
Red Rock	1167	1177
Slate & Shells	1177	1183
Lime	1183	1203
Slate	1203	1226
Maxon	1226	1231
Slate	1231	1251
Little Lime	1251	1264
Slate	1264	1300
Lime Shells	1300	1302
Slate	1302	1308
Lime	1308	1310
Pencil Cave	1310	1317
Big Lime	1317	1470
Injun	1470	1532
Slate & Shells	1532	1712
Brown Shale	1712	3810
White Slate	3810	3900

CASING

10" 1142' 300'
7" 4938' 4749'

8" Csg. Pulled
5 1/2" 4923'

Information obtained from
Murphy & Associates

Water 420'
Water 718'
Water 753'
Water 1400'

Gas 1475'

Gas 5037-5044 120/10 W 7" 24# 4,635 M

Not Shot

OPEN FLOW - 4,635 M

52 Hr. Rock Pressure 980#

Brown Shale 3900 4916
Carboniferous 4916 5021
Sand (Oriskany) 5021 5044
Total Depth 5044

RECORDED
INDEXED

SEP 08 2026

WV Dept. of
Environmental Protection

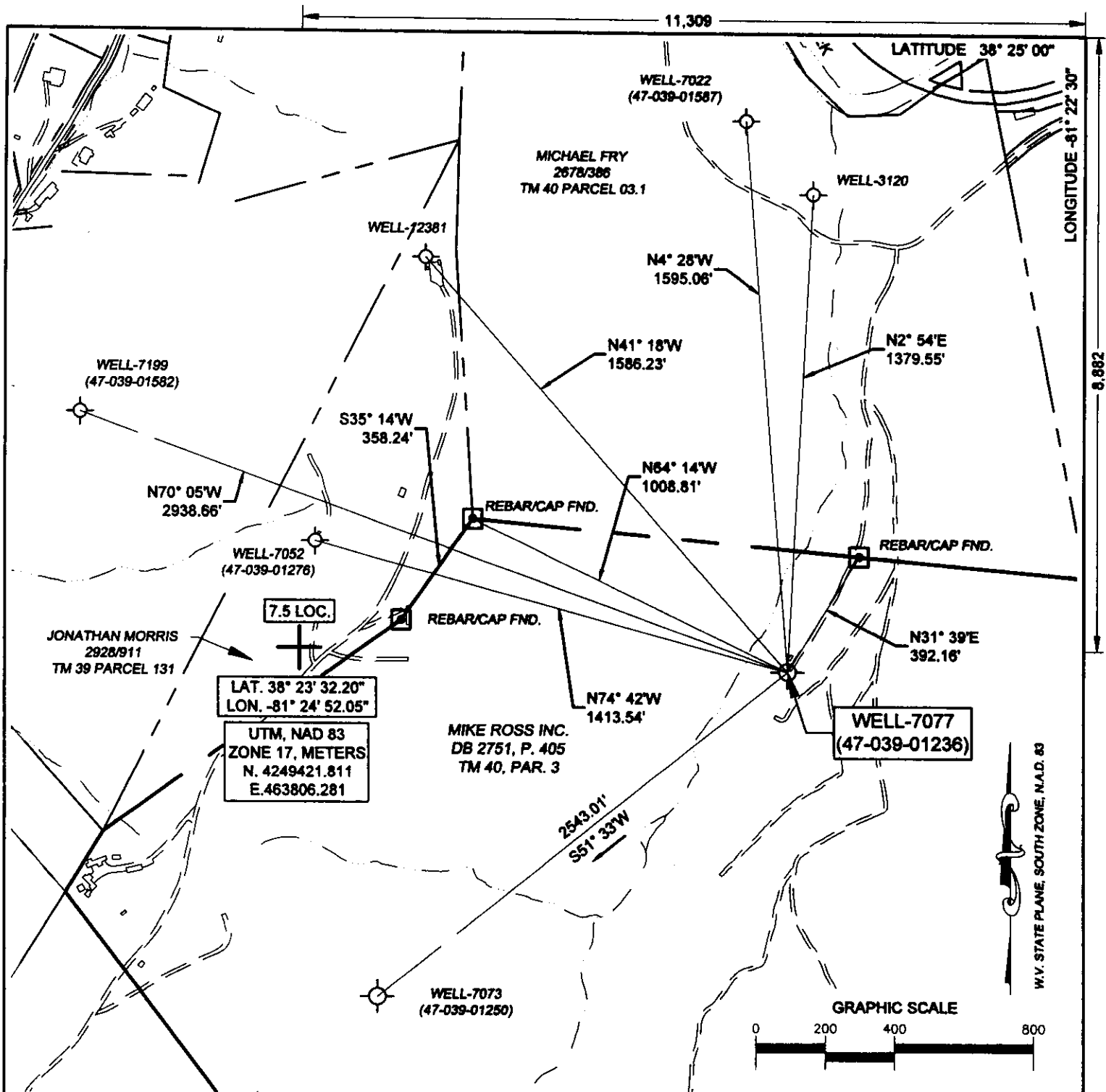
Columbia Gas Trans
and Nat'l Mo.
47-015-01236d

X-52-7077

6543 F-20746

Aug 14 1946
8-14-26

09/25/2026



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

FILE No. 2601-3079-001-001

DRAWING No. COCO A 7077

SCALE 1"=400'

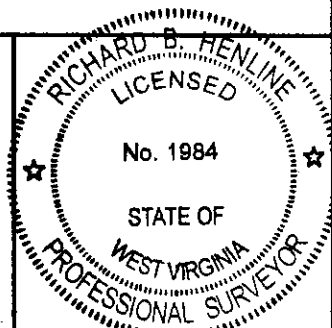
MINIMUM DEGREE OF
ACCURACY 1:200

PROVEN SOURCE OF
ELEVATION TRIMBLE R10
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 PS #1984



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



DATE AUGUST 5 2026
OPERATOR'S WELL No. 7077
API WELL No.

WELL TYPE: OIL ☐ GAS ☒ LIQUID INJECTION ☐ WASTE DISPOSAL ☐
(IF "GAS") PRODUCTION ☐ STORAGE ☒ DEEP ☒ SHALLOW ☐

LOCATION: ELEVATION 778.3' WATER SHED BLUE CREEK
DISTRICT ELK COUNTY KANAWHA
QUADRANGLE BLUE CREEK, WV

SURFACE OWNER MIKE ROSS INC. ACREAGE 142

OIL & GAS ROYALTY OWNER W.A. PHILLIPS, ET AL

LEASE ACREAGE 300 LEASE NO. 1014335-000

PROPOSED WORK: DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE ☐
STIMULATE ☒ PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐
OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG ☐

TARGET FORMATION ORISKANY ESTIMATED DEPTH 5105

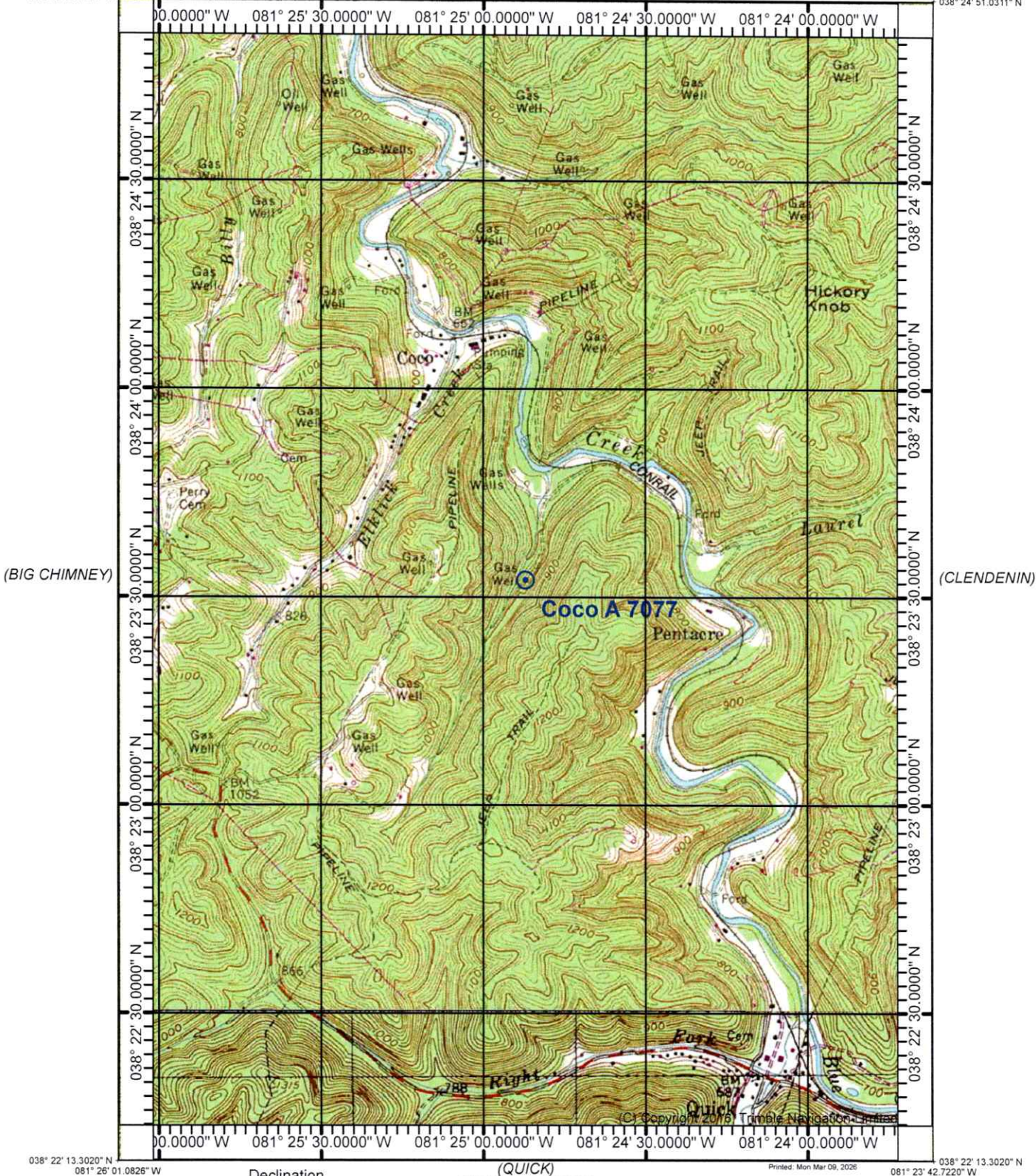
WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT MARIA MEDVEDEVA

ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS 1700 MACCORKLE AVE., S.E.

25325-1273

CHARLESTON, WV 25314

FORM IV-6 (8-78)



WV DEP Reclamation Plan - Overview

Coco A well 7077 (API 47-039-01236)

- 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 A - 07077
- CWACA7077

Google Earth

Image U.S. Geological Survey

Existing access road

Coco A - 07077

6/5

N

2000 ft

WV DEP Reclamation Plan - Overview

Coco A well 7077 (API 47-039-01236)

- 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 A - 07077
- CWACA7077

Existing access road

Coco A - 07077

~0.25 acre

Limit of Proposed Disturbance
on existing well site

Google Earth

Image U.S. Geological Survey

200 ft

N

Columbia Gas Transmission, LLC

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



2026, September 8th

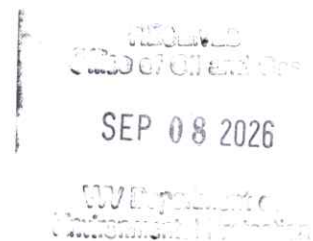
WV DEP – Office of Oil & Gas
601 57th Street, SE
Charleston, WV 25304-2345

Enclosed are well work permit applications for the following Columbia Gas Transmission existing storage wells:

Coco A 7077 (API 47-039-01236)
Coco B 7229 (API 47-039-01616)
Lanham 7126 (API 47-039-00264)
Ripley 7286 (API 47-035-00512)
Ripley 7301 (API 47-035-00526)
Ripley 7304 (API 47-035-00489)
Ripley 7344 (API 47-035-00918)
Ripley 12413 (API 47-035-02462)

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 blue ink, appearing to read "Maria Medvedeva", written over a 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

09/25/2026



Samples, Casey M <casey.m.samples@wv.gov>

TC Energy 2027 project programs for permitting

3 messages

Maria Medvedeva <maria_medvedeva@tcenergy.com>

Tue, Sep 8, 2026 at 11:58 AM

To: "Samples, Casey M" <casey.m.samples@wv.gov>

Cc: "McLaughlin, Jeffrey W" <jeffrey.w.mclaughlin@wv.gov>, Renae D Whitlock <renae.d.whitlock@wv.gov>

Good afternoon Casey,

The following projects are scheduled for the 2027 well workover program. The permit application fees are listed on the right side of the table and will need to be processed by credit card. Company and card information is listed below. Please give me a call when its convenient for you to process these payments. The permit packets have been dropped off at the front desk of the Charleston WVDEP Office of Oil and Gas just now.

Company – TC Energy (Legacy Columbia Gas Transmission)

Designated Agent – Maria Medvedeva

Billing Address – 1700 MacCorkle Ave SE, Charleston WV 25314

Contact Number – 304 – 410 – 4313

Contact email – maria_medvedeva@tcenergy.com

\$5,600

STORAGE FIELD	WELL NUMBER	CONCISE SCOPE	API Permit #	Amount for payment
Coco A	7077	HRVRT cased hole log, coil cleanout and acid stimulation, if needed frac openhole	47-039-01236-0000	\$800
Coco B	7229	Coil cleanout and acid stimulation	47-039-01616-0000	\$800
Lanham	7126	Plug and abandon OB well	47-079-00264-0000	Not required
Ripley	7286	FWW, coil cleanout and acid stimulation	47-035-00512-0000	\$800
Ripley	7301	Coil cleanout and acid stimulation, HRVRT cased hole log	47-035-00526-0000	\$800
Ripley	7304	Coil cleanout and acid stimulation	47-035-00489-0000	\$800
Ripley	7344	Freshwater wash, coil cleanout and acid stimulation	47-035-00918-0000	\$800
Ripley	12413	HRVRT cased hole log, reperforate, coil cleanout and acid stimulation, if needed refrac	47-035-02462-0000	\$800

Maria (Masha) Medvedeva

Senior Wells Engineer – Well Engineering & Technology

Gas Storage

maria_medvedeva@tcenergy.com

M: +1-304-410-4313



1700 MacCorkle Ave SE
Charleston, WV 25314

TCEnergy.com

TC Energy
maria - medvedeva @tcenergy.com
304-410-4313

09/25/2026

Casey,

Good afternoon, \$150 of each fee will go to the funding below:

3322/9254/6869/0000

The remainder of each fee will go to the funding below:

3323/9280/6869/0000

Thank you,

Rena

[Quoted text hidden]

\$5600
total

\$1050

3322-0000-0313-9254-6869-0000

\$4550

3323-0000-0313-9280-6869-0000

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

SALE

REF#: 00000033
Bank ID: 000000
Batch #: 1549 RRN: 751313650752
09/08/26 14:05:53
AVS: Z CVC: M
Invoice #: WELLS

APPR CODE: 09289S
VISA Manual CP
*****4694 **/**

AMOUNT \$2,800.00

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

REF#: 00000032
Bank ID: 000000
Batch #: 1549 RRN: 251039550709
09/08/26 14:05:09
AVS: Z CVC: M
Invoice #: WELL

APPR CODE: 04647S
VISA Manual CP
*****4694 **/**

AMOUNT \$2,800.00

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

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09/25/2026