



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

Wednesday, November 12, 2025

WELL WORK PERMIT
Vertical / Re-Work

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for 7328
47-039-01607-00-00

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.

H. Jason Harmon
Acting Chief

A handwritten signature in black ink, appearing to read "Jason Harmon", is written over the typed name and title.

Operator's Well Number: 7328
Farm Name: GOSHORN, W. F., ETAL
U.S. WELL NUMBER: 47-039-01607-00-00
Vertical Re-Work
Date Issued: 11/12/2025

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.

11/14/2025

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 Big Sandy Blue Creek, WV
Operator ID County District Quadrangle

2) Operator's Well Number: Coco C 7328 3) Elevation: 1129.7

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: 5396

6) Proposed Total Depth: 5556 Feet Formation at Proposed Total Depth: Oriskany

7) Approximate fresh water strata depths: 115', 125' as reported by driller

8) Approximate salt water depths: 1212' as reported by driller

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)

Perform cased hole logs, perform coil tubing cleanout and 2000 gal 15% HCl acid stimulation, flowback well.

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	13-3/8		48	604	604	no record
Coal						
Intermediate	8-5/8		32	2275	2275	50 sks
Production	5-1/2		15.5	5426	5426	200 sks
Production	4-1/2	J-55	12.6	5488	5488	500 gal
Production						

Packers: Kind: _____

Sizes: _____

Depths Set _____

11/14/2025

WW-2A
(Rev. 6-14)

1). Date: 10/09/15
2.) Operator's Well Number Coco C 7328
State 47- County 039 Permit 01607
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 James F. Brown IV Trustee
Address PO Box 88
Charleston, WV 25321-0088
(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 _____

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)

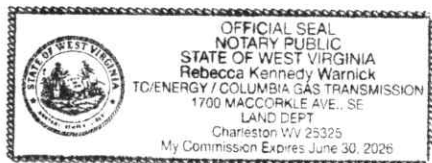
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties by:

_____ 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 9th day of October, 2015

Rebecca Kennedy Warnick Notary Public

My Commission Expires 6/30/26

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

11/14/2025

SURFACE OWNER WAIVER

County Kanawha

Operator

Columbia Gas Transmission LLC

Operator well number

Coco C 7328

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

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

11/14/2025

Columbia Gas Transmission, LLC

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



2025, October 14

James F. Brown IV Trustee
PO Box 88
Charleston, WV 25321-0088

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to 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 7328 (API 47-039-01607).

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 3195

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$5.30	
Extra Services & Fees (check box, add fee 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 \$11.90	
Total Postage and Fees \$21.60	
Sent To James Brown Trustee CC 7328	
Street and Apt. No., or PO Box No. PO Box 88	

Postmark Here OCT 14 2025 KANAWHA CITY STATION CHARLESTON, WV 25304

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"/> Agent <input type="checkbox"/> Address</p> <p>B. Received by (Printed Name) Jessica Cabril</p> <p>C. Date of Delivery 10-22-25</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p>
1. Article Addressed to: James Brown Trustee PO Box 88 Charleston WV 25321	3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation <input type="checkbox"/> Signature Confirmation Restricted Delivery
2. Article Number (Transfer from service label) 7022 2410 0002 6396 3195	11/14/2025

PS Form 3811, July 2020 PSN 7530-02-000-9053

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

* coal not operated

County Kanawha

Operator Columbia Gas Transmission LLC

Operator's Well Number Coco C 7328

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

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.

_____	Date _____	Company Name _____
Signature		By _____
		Its _____

		Signature _____
		Date _____

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11/14/2025

**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
South Penn Natural Gas GO	United Fuel Gas Company	Storage Lease - 1049097-000	132 / 251

**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

11/14/2025

WW-2B1
(5-12)

Well No. Coco C 7328

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 _____

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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.

11/14/2025

WW-9
(5/16)

API Number 47 - 039 - 01607
Operator's Well No. Coco C 7328

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) Rich 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 Maria Medvedeva

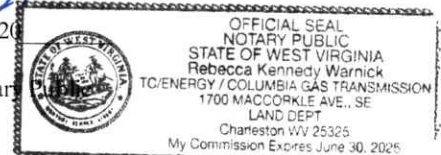
Company Official (Typed Name) Maria Medvedeva

Company Official Title Senior Wells Engineer Storage Technical Services

Subscribed and sworn before me this 9th day of October, 2023

Rebecca Kennedy Warnick Notary

My commission expires 6/30/26



11/14/2025

Proposed 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 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.

Plan Approved by: *Angela White*

Comments: _____

Title: *Inspector O&G*Date: *10-17-25*

Field Reviewed?

(☒) Yes(☐) No

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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): Rich Creek Quad: Blue Creek, WV
Farm Name: _____

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.

Rich Creek is at a distance of 0.15 miles N.

The Trail Kitchen WV9908037 is the closest Well Head Protection Area at a distance of 8.29 miles SE from discharge area.

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

N/A

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NOV 18 2025

DEPARTMENT OF
ENVIRONMENTAL PROTECTION

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

11/14/2025

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.

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.

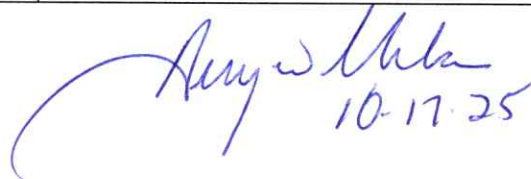
Signature: _____

Date: _____

RECEIVED
Office Of Oil and Gas
OCT 28 2025
Department of
Environmental Protection

11/14/2025

WELL JOB PLAN				STS Well Engineering & Technology				PAGE 1		DATE JOB PREPARED: 03.30.24					
Objective: Restore Deliverability								LAST PROFILE UPDATE:							
TITLE: CTCO, obtain HRVRT						WORK TYPE:									
FIELD: Coco C			WELL ID: 7328			LEASE #: 49097									
STATE: WV			SHL (Lat/ Long) 38.445156		-81.402326		API: 47-039-01607								
DIST/TWP: Big Sandy			BHL (Lat/Long) 38.445156		-81.402326		CNTY: Kanawha								
EXISTING TUBULAR CONFIGURATION			OD (inches)	WEIGHT (PPF)	GRADE	THREAD	DEPTH (ft)		WELLLINE #: X52CW7328						
							TOP	BOTTOM	FORMATION: refer to MISC INFORMATION section						
Conductor									PAY:	ELEVATIONS					
Surface			13 3/8	48.0			0	604	TD: 5556	TMG:					
Intermediate			10 3/4	Pulled 1953					PBTD:	KB-RF:					
Intermediate			8 5/8	32.0			0	2275	KB-GL:	GL:					
Production			5 1/2	15.5			0	5426*	CSG	DEPTH	WELLBORE SCHEMATIC				
Tubing			4 1/2	12.6	J-55	Hydril	0	5488 ? **							
*per 2008 HRVRT **no record of tubing depth, depth taken from an invoice pumper depth reference															
Perforations															
Refer to "Wellbore Diagram" tab															
Wellhead API 5k, 4-1/2" flowstring x 5-1/2" support, 4-1/2" 8rd wellhead connection															
D.H. EQUIPMENT				TYPE				DEPTH (ft)							
PACKER INFO: Upper															
Lower															
NIPPLE PROFILE INFO: Upper															
Lower															
SSSV INFO:															
CEMENT INFO								TOC (ft)							
13 3/8 No record															
8 5/8 Cmt'd w/ 50 sks - 1953 Well Service ticket states "cement dry balanced"								1989 ?							
5 1/2 Cmt'd w/ 200 sks - 1953 Well Service ticket states "cement balanced"								442 ?							
4 1/2 The only record/indication that tubing may have been cmt'd is an old Dowell invoice w/ 2 line items: 1) "500 gal Cealment Service" & 2) "T P Pumper to 5488". No other record of depth for 4.5 available.								4238							
MISC INFORMATION															
REFER TO WELL SUMMARY RPT, WELLBORE DIAGRAM, ELOG, ETC. (see spreadsheet tabs below)															
Kill Fluid Calculation * Note that kill fluid calculation tabs are hidden															
Maximum calculated bottom-hole pressure (for reference only):						2080	psig	* input							
Maximum storage field surface pressure (MAOP):						1800	psig	* input							
Well TD:						5556	ft TVD	* input							
Top of storage zone:						5396	ft TVD	* input							
Calculated maximum BH pressure at top of zone:						2069	psig	* output Kill Fluid (TOZ)							
Kill fluid density at top of zone @:						150	psi OB	7.91	ppg	* output Kill Fluid (TOZ)					
Proposed depth of BP (n/a):						5396	ft TVD	* input							
Calculated maximum BH pressure at depth of BP:						2069	psig	* output Kill Fluid (BP)							
Kill fluid density at depth of BP @:						150	psi OB	7.91	ppg	* output Kill Fluid (BP)					
Required minimum kill fluid density:						8.0	ppg	* greater of the two							
<div style="display: flex; justify-content: space-between;"> <div> Current AOF: Top historical AOF: Last MVRT: SBT: </div> <div> <table border="1" style="width: 100%;"> <tr><td>MCF/D</td></tr> <tr><td>MCF/D</td></tr> <tr><td>8/26/2008 Baker HRVRT showed that there were no joints with corrosion responses greater than Class 1.</td></tr> <tr><td>08/26/2008 Baker CBL shows a clear TOC at 4238'.</td></tr> </table> </div> </div>												MCF/D	MCF/D	8/26/2008 Baker HRVRT showed that there were no joints with corrosion responses greater than Class 1.	08/26/2008 Baker CBL shows a clear TOC at 4238'.
MCF/D															
MCF/D															
8/26/2008 Baker HRVRT showed that there were no joints with corrosion responses greater than Class 1.															
08/26/2008 Baker CBL shows a clear TOC at 4238'.															
PROPOSED YEAR:		2026		ERCB PERMIT REQD:		YES ___ NO ___X___		(Internal) PDS Required: YES ___ NO ___							
PREPARED BY:		Maria Medvedeva		DT. APPLIED:		ISSUED:		APPROVED: Department of Environmental Protection							
PREP DATE:		03.30.24		REVIEWED BY:		James Amos		Brent Criser							


10-17-25

11/14/2025

WELL JOB PLAN		STS Well Engineering & Technology		PAGE 2	DATE JOB PREPARED: 03.30.24
Objective: Restore Deliverability					
TITLE: CTCO, obtain HRVRT				WORK TYPE: 0	
FIELD: Coco C	WELL: 7328				
STAT: WV	SHL (Lat/Long): 38.445156 -81.402326			API: 47-039-01607	
TWP: Big Sandy	BHL (Lat/Long): 38.445156 -81.402326			CNTY: Kanawha	

PROCEDURE

NOTE: Well has lost deliverability. Analysis shows same kh so suspect either salt or fill in the well.

- 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 1.75" CTU.
- 11 Flow well. If well won't flow unload with nitrogen.
- 12 Perform CTCO and 2000 gallons of 15% HCL treatment.
- 13 RDMO CTU.
- 14 Flow well to recover treatment fluids.
- 15 Perform final 45-min flowback test thru 3/4" choke. Record flow test in the FLOWTEST and GAS LOSS DATA SHEET.
- 16 RU loggers, wireline BOP, lubricator, etc.
- 17 Obtain HRVRT log.
- 18 RDMO loggers.
- 19 Re-install wellhead cap / BHTA.
- 20 Return wellhead valves to pre-logging position.
- 21 Notify WET Project Support that well is back in-service.
- 22 Reclaim R&L.
- 23 Reconnect well line.
- 24 Commission well by completing, processing, and retain for records the Wellsite Review and Turnover Form.
- 25 Notify REG that well is ready for storage service.

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Environmental Protection

PREPARED BY: Maria Medvedeva	REVIEWED BY: James Amos	APPROVED: Brent Criser
PREP DATE: 03.30.24		

Angela White
10-17-25

11/14/2025

Coco C 7328 (API 47-039-01607) - CTCO and Acid Treatment

API 5K wellhead, 4-1/2" FS x 5-1/2" support

4-1/2" 12.6# J-55 csg presumed to be set at 5488'

Capacity: [5488 ft x 0.63840 gal/ft] = 3503.54 gals; x 0.0152 bbl/ft = 83.42 bbls

Openhole

Capacity 6-1/8" hole: 68 ft x 0.03644 bbl/ft = 2.48 bbls

Total Capacity: 86 bbls

Oriskany: 5396 – 5556

Perforations: Openhole completion

TD: 5556

Fluids Needed

2000 gals 15% HCl acid** treated with corrosion inhibitor, iron control/sequestering agent, H₂S scavenger, and surfactant. Biocide, clay stabilizer, and surfactant to treat +/- 200 bbls fresh water. Liquid caustic on location in case need to neutralize flowback fluids.

** Prior to acid treatment verify that the 4-1/2" x 5-1/2" and 5-1/2" x 8-5/8" annuli is full, top off with fresh water treated with biocide, corrosion inhibitor, and clay stabilizer as needed.*

CTCO Procedure

1. MIRU 1.75" CTU and H₂S monitoring service.
2. Load CT with treated fresh water (TFW) and pressure test CT and BOPs to 2500 psig.
** maximum pressure on wellhead components 4500 psig*
3. Open well and RIH under static conditions.
4. At 5300' begin jetting with foamed TFW. Jet to TD and cycle up and down across interval 5450' – TD.
5. Begin 15% HCl acid foamed to 50Q and cycle up and down across interval 5450' – TD until 1000 gals acid gone.
6. Chase acid with 40 bbls TFW foamed to 50Q to neutralize wellbore / flowback fluids.
7. Flow well while POOH to 5100'. Flow until returns are relatively dry.
8. CTU on stand-by until after acid treatment to unload wellbore if needed.

Acid Treatment

1. RU to perform acid treatment down casing as follows:

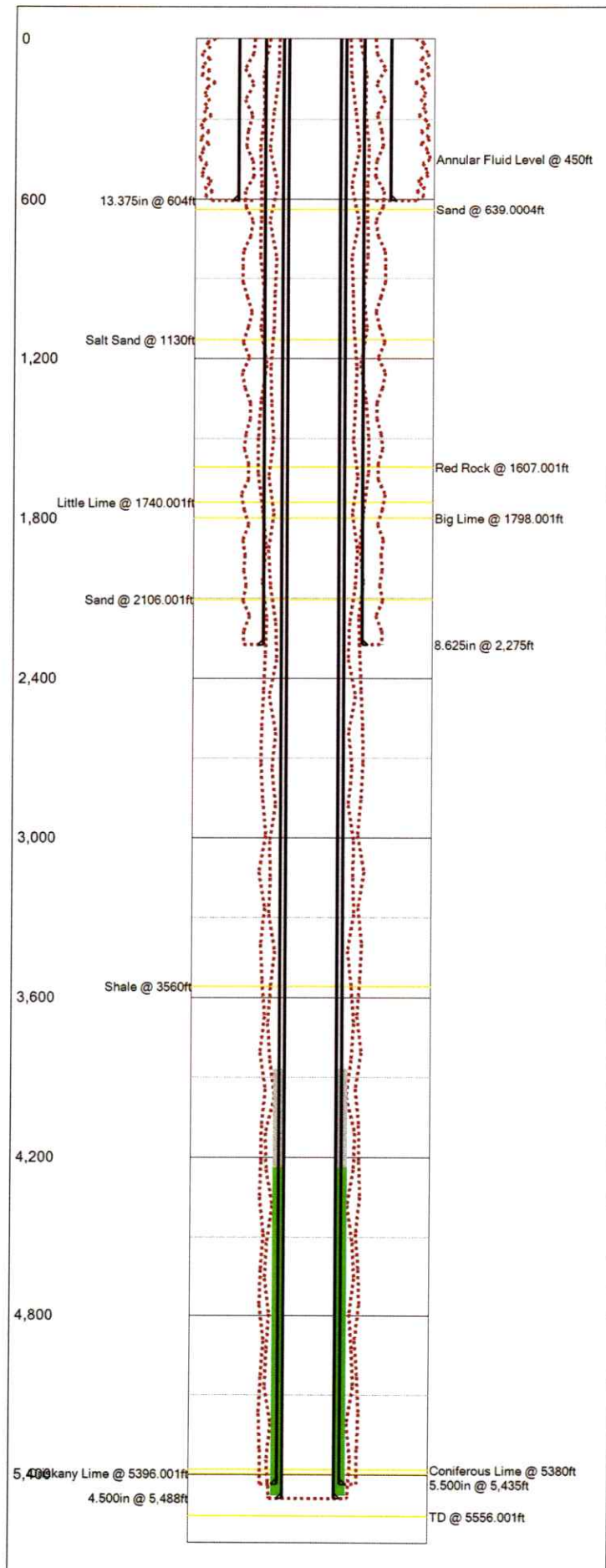
▪ 1000 gals 15% HCl acid	4-6 BPM	Max Treating Press = 2500 psig
▪ 25 bbls bbls TFW	4-6 BPM	Max Treating Press = 2000 psig
▪ 20 bbls bbls TFW	4-6 BPM	Max Treating Press = 1500 psig
▪ 15 bbls TFW	2-4 BPM	Max Treating Press = 1000 psig
▪ SHUT DOWN FOR 30 minutes TO ALLOW ACID TO SOAK		
▪ 15 bbls TFW	2-3 BPM	Max Treating Press = 1000 psig
▪ SHUT DOWN FOR 30 minutes TO ALLOW ACID TO SOAK		
▪ 15 bbls TFW	2-3 BPM	Max Treating Press = 1000 psig
2. Flow well. If well quits flowing, RBIH with CT unloading fluid with N₂.
3. RDMO and release CTU / acid equipment.

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



Field Name		Lease Name		Well No.		
Coco C		Coco C - 07328		07328		
County		State		API No.		
Kanawha		WV		47039016070000		
Version	Version Tag					
0 Current Completion						
G.L. (ft)	K.B. (ft)	Sec.	Township/Block	Range/Survey		
5,556.0	5,556.0	74-65	Big Sandy	030407328		
Operator		Well Status	Latitude	Longitude		
TransCanada		ACTIVE	38.4452	-81.4023		
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From		
PropNum			Spud Date	Comp. Date		
U8021			6/1/1953			
Additional Information						
I-79 North Exit 9 Elkview off ramp go right 5/10 mile @ 4 way go left on Rt 119 north follow 1.2 miles go right on Blue Crk rd County Rt 57 @ end of bridge go left on Wallgrove rd County rd 52 then right up hill thru pipe gate (keep gate closed!!) follow 1.1miles stay straight @ fork follow main ridge road 1.1 miles @ fork go right follow main road 6/10 mile @ tee go right follow 7/10 mile go hard left and down hill to location						
Other1		Other2	Other3	Other4		
Coco C		0304	030407328			
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		
6/1/1953	17.500	0	604			
6/4/1953	10.625	0	2,275			
6/8/1953	7.875	0	5,435			
5/29/1957	6.250	0	5,488			
Tubular Summary						
Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
6/1/1953	Casing	13.375	48.00		0	604
6/4/1953	Casing	8.625	32.00		0	2,275
6/8/1953	Casing	5.500	15.50		0	5,435
5/29/1957	Casing	4.500	12.60	J-55	0	5,488
Casing Cement Summary						
C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	8/26/2008	0	4.500	3,870	4,238	Free Pipe
	8/26/2008	0	4.500	4,238	5,476	Good Quality
Formation Tops Summary						
Formation		Top (TVD ft)	Comments			
Sand		639	Comments: Water @ 115' - 1/2 bailer/hr. - Water @ 125' - 1/2 bailer /hr.			
Salt Sand		1,130	Comments: Show of gas @ 1152' / hole full salt water @ 1212'.			
Red Rock		1,607				
Little Lime		1,740				
Big Lime		1,798	Comments: Gas @ 1918' - 75 Mcf.			
Sand		2,106	Comments: Gas @ 2108' - 103 Mcf. Comments: Gas @ 2,108 6/10-W in 2".			
Shale		3,560				

United Fuel Gas Company
COMPANY

Approved

J. M.
Superintendent

SERIAL WELL NO. 8021LEASE NO. 49097MAP SQUARE 74-65

RECORD OF WELL NO. <u>8021</u> on the			CASING AND TUBING				TEST BEFORE SHOT
W.F. Goshorn Et Al. farm of <u>340</u> Acres			SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	25 /10 of Water in <u>7</u> inch
in <u>Big Sandy</u> District			<u>13-3/8</u>	<u>48#</u>	<u>730'</u>	<u>604'</u>	/10 of Merc. in _____ inch
<u>Kanawha</u> County			<u>10-3/4</u>	<u>40#</u>	<u>1967'</u>	<u>-0-</u>	Volume <u>2,157</u> M Cu. ft.
State of: <u>West Virginia</u>			<u>8-5/8</u>	<u>32#</u>	<u>2412'</u>	<u>2289'</u>	TEST AFTER SHOT
Field: <u>Clendenin</u>			<u>5-1/2</u>	<u>15.5#</u>	<u>5554'</u>	<u>5491'</u>	Not Shot
Rig Commenced <u>19</u>			<u>2-3/8"</u>	<u>4.6#</u>	<u>5617'</u>	<u>5585'</u>	/10 of Merc. in _____ inch
Rig Completed <u>19</u>							Volume <u>Not Shot</u> Cu. ft.
Drilling Commenced <u>June 1</u> <u>19 53</u>							Hours After Shot
Drilling Completed <u>November 12, 19 53</u>							Rock Pressure <u>22-Hr. 945#</u>
Drilling to cost _____ per foot							Date Shot <u>Not Shot</u>
Contractor is: <u>Bower Drilling & Service Co.</u>							Size of Torpedo <u>None</u>
Address: <u>Sissonville, W. Va.</u>			SHUT IN				Oil Flowed _____ bbls. 1st 24 hrs.
			Date <u>November 12, 1953</u>				Oil Pumped _____ bbls. 1st 24 hrs.
Driller's Name _____			<u>2</u> in. Tubing or _____				
			Size of Packer <u>None</u>				Well abandoned and
			Kind of Packer <u>None</u>				Plugged _____ 19
			1st Perf. Set _____ from _____				
Elevation: _____			2nd Perf. Set _____ from _____				

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Top Soil	0	30		
Slate	30	50		
Sand	50	85		
Red Mud	85	95		
Slate	95	115		
Sand	115	120		
Slate	120	125		
Sand	125	205		
Red Rock	205	215		
Sand	215	220		
Slate & Shells	220	245		
Sand	245	456		
Slate & Shells	456	484		
Sand	484	554		
Slate & Shells	554	579		
Sand	579	634		
Slate	634	639		

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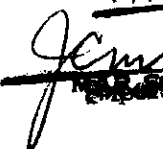
OCT 28 2025

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Environmental Protection

11/14/2025

SERIAL WELL NO. 8021LEASE NO. 42097

APPROVED


 SQUARE 41-65

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Sand	639	716		Water 115' 1/2-Bailer Top 115'
Slate	716	772		Water 125' 1-1/2 " " "
Sand	772	808		Exhausted
Slate	808	850		Short of Gas at 1152'
Sand	850	883		Hole full of salt water at 1212'
Slate	883	915		Gas at 1918' estimated 75,000 M
Sand	915	925		Gas at 2108' 6/10-W in 2"
Slate	925	945		Gas at 5512 to 5552 - 25/10-W-7# 22#
Sandy Lime	945	995		
Slate & Shells	995	1130		
Slate Salt Sand	1130	1560		
Lime	1560	1598		
Red Rock	1598	1592		
Lime	1592	1607		
Red Rock	1607	1654		
Slate & Shells	1654	1696		
Red Rock	1696	1715		
Lime	1715	1718		
Sand	1718	1722		
Slate & Shells	1722	1740		
Lime	1740	1796		
Slate Pencil	1796	1798		
Big Lime	1798	1984		
Injan Sand	1984	1996		
Slate & Shells	1996	2106		
Sand	2106	2220		
Slate & Shells	2220	3560		
Brown Shale	3560	3620		
Slate & Shells	3620	4025		
Brown Shale	4025	4320		
White Slate	4320	4810		
Brown Shale	4810	5275		
White Slate	5275	5320		
Shale	5320	5380		
Concretionary Lime	5380	5396		
Criskany Sand	5396	5556		
Total Depth	5556			

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Individual Well Detail Report History

Field Name: Coco C

Well: 07328

Date:	Hours:	Operation Details:	Rig Contractor:
05-29-02	8	ERS performed 3-pt test.	
11-09-07	8	ERS - Jonathan Blanton - Crew 2 - Tyler Dingfelde completed a 1-pt test.	
07-29-08	3	O&M dropped leadline.	No Rig on Location
07-30-08	6	Strickland spotted FB and frac tanks. O&M move methanol bottle.	No Rig on Location
07-31-08	8	Hauling stone to site. Devonian hauled 190 bbls fresh water for kill.	No Rig on Location
08-01-08	6	Hauling stone to site.	No Rig on Location
08-02-08	8	Hauling stone to site.	No Rig on Location
08-05-08	1	IWHP = 1300 psig. MIRU SLB pumper. RU FB Iron to tank.	No Rig on Location
	2.5	Mixed 140 bbls drilling fluid (Fed Zan, PolySai, Soda Ash, Myacide). Mixed 10 bbl sized carb LCM pill.	
	1.75	Problems with pump piston oiler on SLB pump truck. Gather up as much oil as possible to feed oiler in order to pump job.	
	0.1	Flowed well and pumped small amount of fluid - immediate return of fluid in stream - therefore no tubing in well.	
	0.75	Killed well with 0.5 bbl fluid, 10 bbl LCM pill, and 70 bbl fluid. Capacity 85 bbls. Press down to zero at 65 bbls in - climbed to 1650 psig at SD.	
	3	Wait 1 hr for fluid to drop. Bled off press down intermittently - press down to 500 psig - wouldn't drop any further - making fluid - recovered ~5 bbls fluid. Let well sit overnight.	
	0.5	RDMO SLB.	
08-06-08	3	Shut in 1000 psig Blew well down slowly thru choke 1/8th ? Load hole w / Water 15 bbl	Stricklin Dozer & Trucking
	1.5	RDMO WTF Iron	
	8	Dig out around well head and start building cellar	
08-07-08	10	Working on cellar lay ties and backfill Move 210 tank off location fill in hole and spread stone on rest of location	Stricklin Dozer & Trucking
08-08-08	10	Working on location back fill and dress up hole were tank was sitting Location ready for rig	Stricklin Dozer & Trucking
08-20-08	4	Move unit from 7325 to 7328	Key Energy Rig #290
	3	Move base beam to location	
	2	Spot beam on well Spot unit on location Can not rig up rear end out of unit	
08-21-08	8	Working on unit removing rear end Spot 210 bbl tank on location Hauled water to tank	
08-22-08	5	Spot unit and RU Shut in 60 psig blew to 0 psig	Key Energy Rig #290
02-Oct-08			

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WV Department of
Energy
Key Energy Rig #290

Individual Well Detail Report History

Field Name: Coco C

Well: 07328

Date:	Hours:	Operation Details:	Rig Contractor:
08-22-08	7	Replace rear end in unit	
08-23-08	3	MU tools to set HES 4 1/2" plug on sandline couldn't get plug to go down hole Had to PU a jt of drill pipe to push plug down hole	Key Energy Rig #290
	5	ND old 5 1/2" x 4 1/2" well head Had to split old head to remove seal assembly	
	5	Waiting on well head	
	1	Off load new well head	
08-26-08	4	RU welder cut 5 1/2" nipple off of old 5 1/2" bowl Space out and weld in new 5 1/2" bowl	Key Energy Rig #290
	2	Screw bowl and nipple into 5 1/2" csg Set slips on 4 1/2" csg @ 52K	
	2	Cut off 4 1/2" csg 3" below weld on pup jt Dress up top of csg	
	2	NU DSA, Master Gate	
		NU, master gate, flow tee and sales valve Test seals @ 4100 psig	
	1	PU tools TIH w / sandline and pull HES plug Load hole w / water 22"-25.52 bbl	
08-27-08	1.5	MIRU Baker Atlas	Key Energy Rig #290
	3.5	TIH w / GR - Neu Tag @ 5542' log to surface	
	1.5	TIH w / Gauge Ring - Junk Basket to 5480 and TOOH	
	3.5	TIH w / Bond Tool log from 5475' to 3880' and TOOH Cement top @ 4238'	
	2.5	TIH w / Micro - Vert log to 5475 and log back to surface	
	1	RD Baker Atlas	
	1.5	Waiting on prints MO Baker Atlas	
08-28-08	1.5	Spot flow back tank to swab into and lay flow line MU tools to 4 1/2" csg	Key Energy Rig #290
	5.5	Swabbins csg fluid @ 300' swab down to 2800' Getting gas cut fluid (tight spot @ 600' eating cups)	
	3.5	Flowing well Fluid back today 93 bbl	
08-30-08	6	Move off key 290 , base beam and flow back tank	Key Energy Rig #290
09-12-08	12	Move 3 - 220 bbl tanks from 12125 to location Hauling water	Offices Of Oil and Gas Devonian Industries
09-13-08	10	Pull ties from cellar and back fill Dress up location	OCT 28 2005 Stricklin Dozer & Trucking WV Department of Environmental Protection
02-Oct-08			Page 2 of 3

11/14/2025

Individual Well Detail Report History

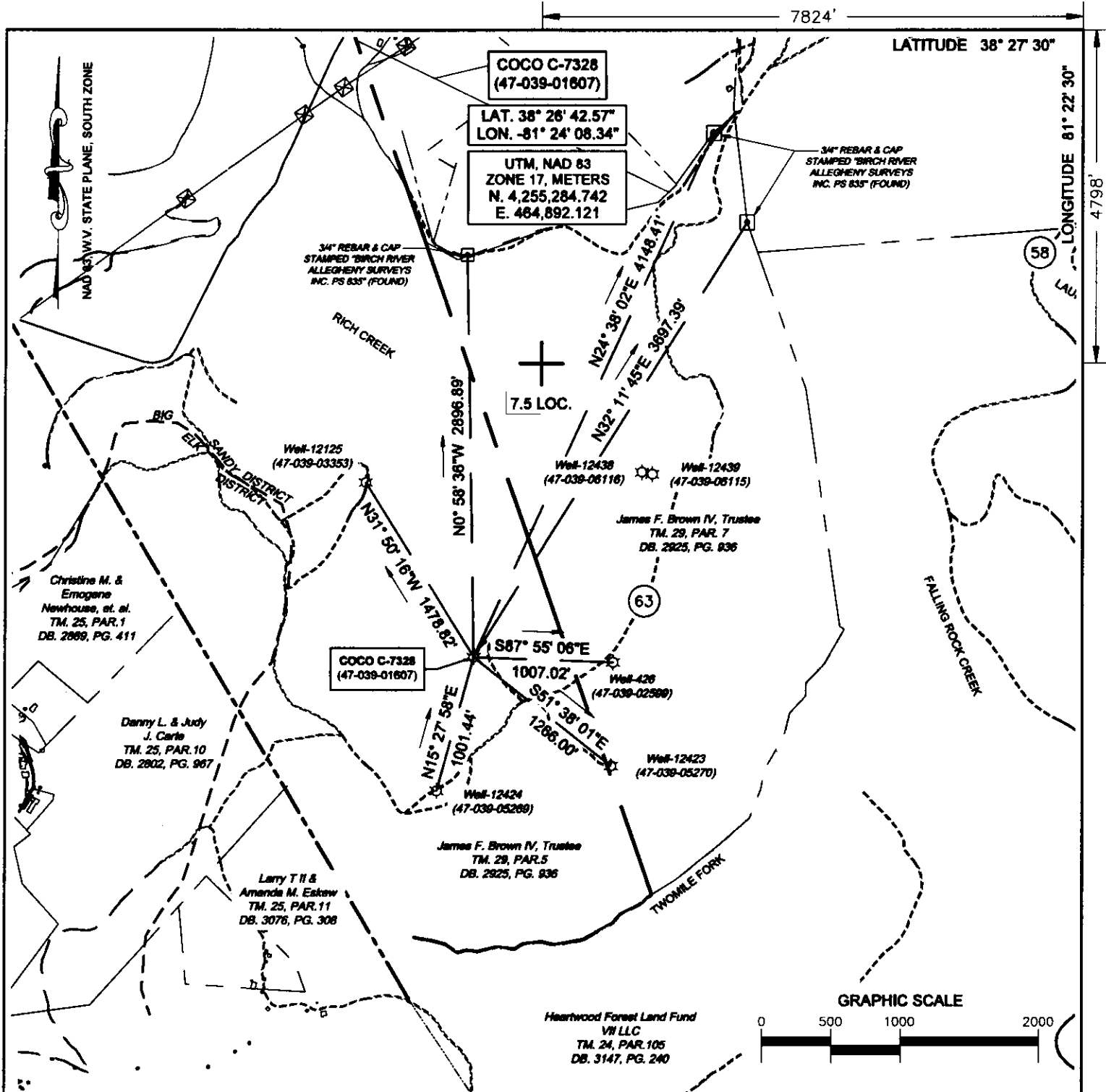
Field Name: Coco C

Well: 07328

Date:	Hours:	Operation Details:	Rig Contractor:
09-17-08	7	Move flow back tank to location RU Iron and flow well	Weatherford
09-18-08	2.5	MORU HES Premix 2 - 220 tanks Safety meeting / Test lines @ 5504 psig	Halliburton Energy Servic
	1.5	Pick up acid @ well head / shut in 1355 psig / pump 1000 gal 28 % @ 3 bpm Start pad @ 10.2 bpm break @ 3253 psig @ 31 bbls Pad 12.8 bpm 167 bbls @ 3555 psig Sand @ 1.25 ppg @ 13.6 bpm 221 bbls @ 3204 psig Sand @ 1.60 ppg @ 13.6 bpm 288 bbls @ 3259 psig Sand @ 2.60 ppg @ 13.4 bpm 349 bbls @ 3226 psig Sand @ 3.75 ppg @ 13.4 bpm 389 bbls @ 3197 psig Sand @ 5.02 ppg @ 13.2 bpm 464 bbls @ 3193 psig Flush @ 13.6 bpm @ 512 bbls @ 3647 psig ISIP 3265 psig / 5 min 3067 psig / 10 min 3015 psig Total pumped 512 H2O / 180,000 scf N2 / 265 sks sand Flow back	
09-19-08	6	Shut in 1345 psig made 4 runs on well flowing thru 3/4 choke 1st run @ 618 psig - 2nd @ 633 psig - 3rd @ 611 psig - 4th @ 673 psig Fluid back today 35 bbls total back 240 bbls	Weatherford
	2	Rig down iron and move off Devonian hauled fluid to tanks @ cage	
09-25-08	8	Strickland began reclaiming road and well location.	No Rig on Location
09-26-08	8	Reclaiming road and well location.	No Rig on Location
09-27-08	8	Hauled mulch and reclaiming road and well location.	No Rig on Location

Aug W. Hahn
10-17-25

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

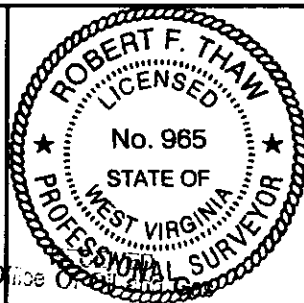
FILE No 2501-3079-001-002
DRAWING No. COCO C 7328
SCALE 1" = 1000'
MINIMUM DEGREE OF
ACCURACY 1:200
PROVEN SOURCE OF
ELEVATION TRIMBLE R12
GPS UNIT

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE
DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED)

ROBERT F. THAW

PS #965

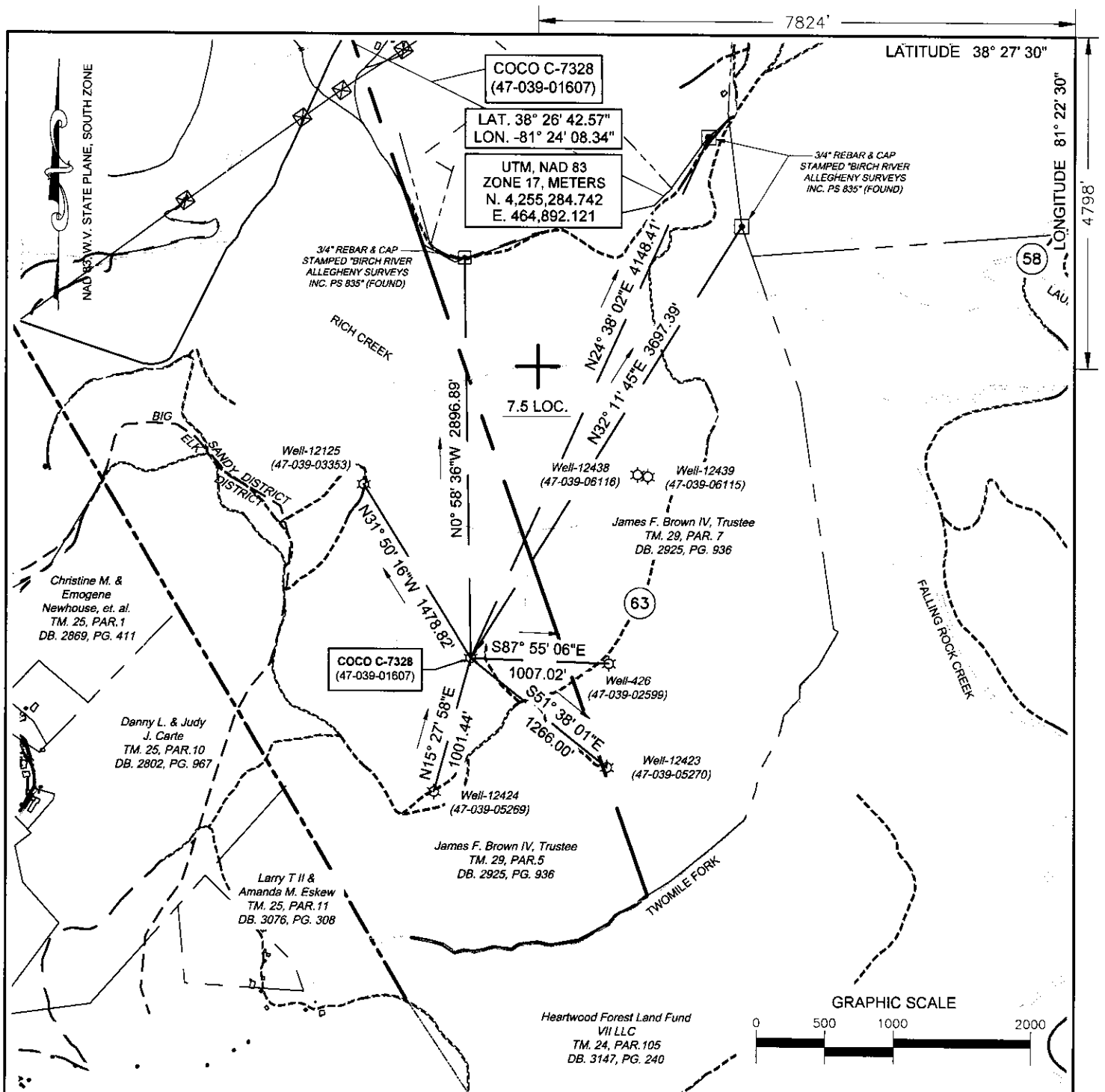


STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
NITRO, WV



DATE OCTOBER 28 2025
OPERATOR'S WELL No. 7328
API WELL No. 47 039 - 01607
STATE COUNTY PERMIT

WELL TYPE: OIL ☐ GAS ☒ LIQUID INJECTION ☐ WASTE DISPOSAL ☐
(IF "GAS") PRODUCTION ☐ STORAGE ☒ DEEP ☒ SHALLOW ☐
LOCATION: ELEVATION 1129.7' WATER SHED RICH CREEK
DISTRICT BIG SANDY COUNTY KANAWHA
QUADRANGLE BLUE CREEK, WV
SURFACE OWNER JAMES F. BROWN IV, TRUSTEE ACREAGE 340
OIL & GAS ROYALTY OWNER SOUTH PENN NATURAL GAS COMPANY
LEASE ACREAGE 340 LEASE NO. 1049097-000 11/14/2025
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 5556
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



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

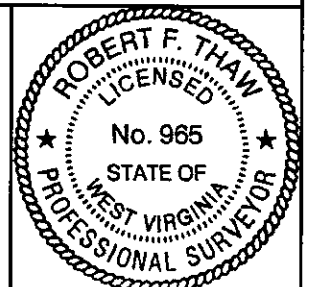
FILE No 2501-3079-001-002
DRAWING No. COCO C 7328
SCALE 1" = 1000'
MINIMUM DEGREE OF
ACCURACY 1:200
PROVEN SOURCE OF
ELEVATION TRIMBLE R12
GPS UNIT

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE
DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED)

ROBERT F. THAW

PS #965



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



DATE OCTOBER 7 2025
OPERATOR'S WELL No. 7328
API WELL No. 47 039 - 01607

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

LOCATION: ELEVATION 1129.7' WATER SHED RICH CREEK
DISTRICT BIG SANDY COUNTY KANAWHA

QUADRANGLE BLUE CREEK, WV

SURFACE OWNER JAMES F. BROWN IV, TRUSTEE

ACREAGE 340

OIL & GAS ROYALTY OWNER SOUTH PENN NATURAL GAS COMPANY

LEASE ACREAGE 340 LEASE NO. 1049097-000

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 5556

WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC

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25325-1273

ADDRESS 1700 MACCORKLE AVE., S.E.
CHARLESTON, WV 25314

11/14/2025

(ROMANCE)



BLUE CREEK QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

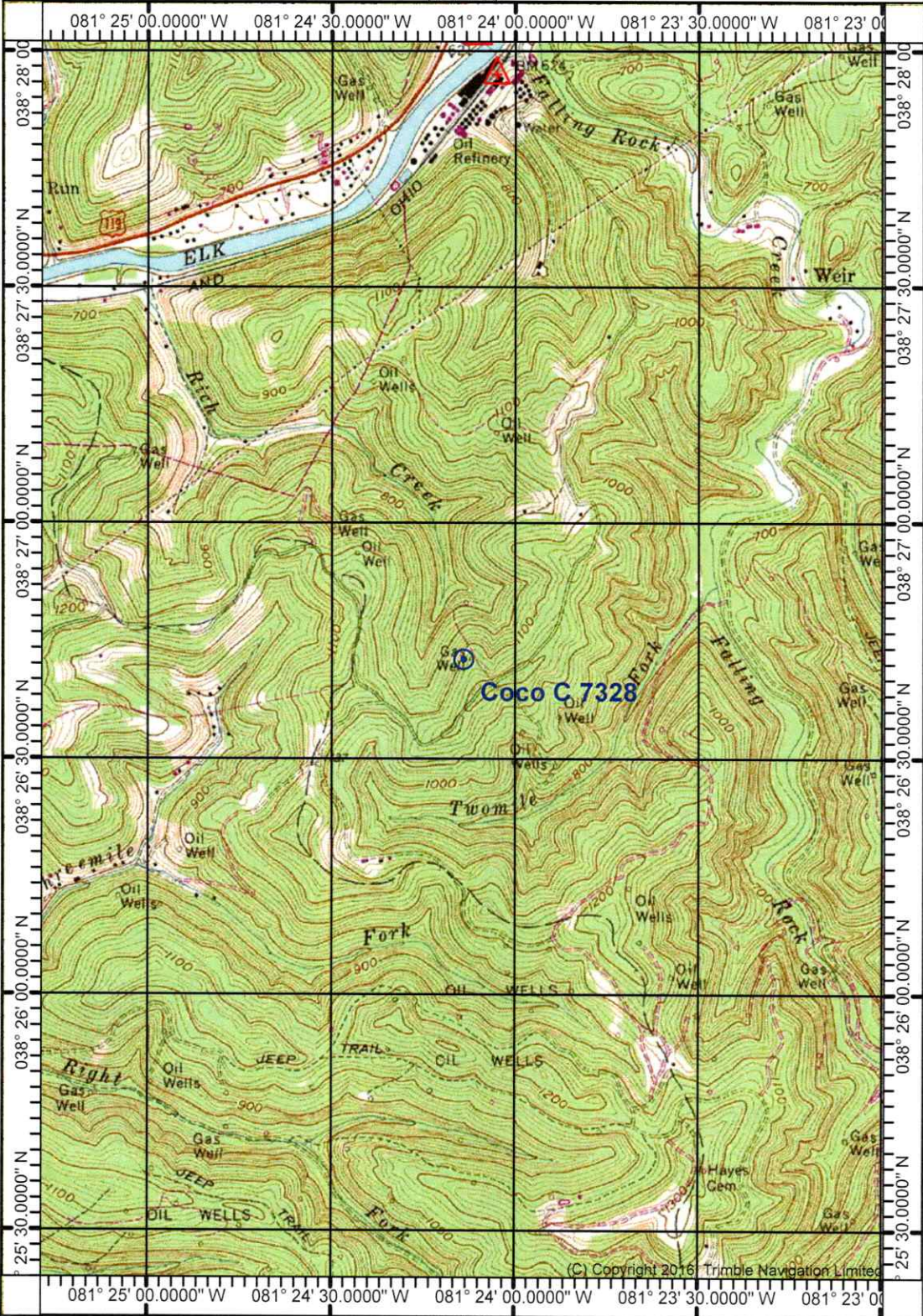
(CLIO)

081° 25' 17.3462" W

(KETTLE)

081° 22' 58.8843" W

038° 28' 01.2118" N



(BIG CHIMNEY)

(CLEDENIN)

(CHARLESTON
EAST)

Produced by Trimble Terrain Navigator Pro
Topography based on USGS 1:24,000
Maps

North American 1983 Datum (NAD83)

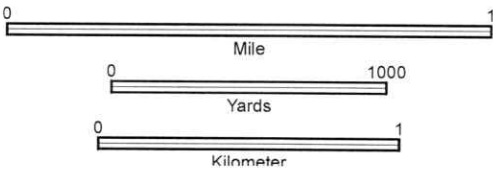
To place on the predicted North American
1927 move the projection lines 11M N and
14M E

Declination



GN 0.25° W
MN 7.92° W

(QUICK)
SCALE 1:24000



CONTOUR INTERVAL 20 FT

Printed: Wed Jun 19, 2024

038° 25' 23.4827" N
081° 22' 58.8843" W

(MAMMOTH)

38081-D3-EM-024
BLUE CREEK, WV

JAN 1 2025

WV Department of
Environmental Protection

11/14/2025

WV DEP Reclamation Plan - Overview

Coco C well 7328 (API 47-039-01607)

- 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 - 07328
- CWACC 7328

11/14/2025

Office Of Oil and Gas

OCT 28 2025

Department of

Existing access road



Coco C - 07328

63

63

63

Google Earth

Image © 2025 Airbus

1000 ft



WV DEP Reclamation Plan - Site Detail

Coco C well 7328 (API 47-039-01607)

- 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 - 07328
- CWA CC 7328

Limit of Proposed Disturbance
on existing well site

~0.5 acre

Existing access road

Coco C - 07328

11/14/2025

Google Earth

Image © 2025 Airbus

100 ft





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

Rework permit issued 4703901607

1 message

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

Wed, Nov 12, 2025 at 3:11 PM

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

To whom it may concern, a rework permit has been issued for 4703901607.

--

James Kennedy

Environmental Resource Specialist III / Permitting

WVDEP Office of Oil and Gas

601 57th Street, SE

Charleston, WV 25304

304-926-0499 ext. 45025

james.p.kennedy@wv.gov



4703901607.pdf

4395K

11/14/2025