



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, January 14, 2026
WELL WORK PERMIT
Vertical / Re-Work

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for 7471
47-083-00124-00-00

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

Operator's Well Number: **U.S. DEPT. INTERIOR**
Farm Name: **U.S. DEPT. INTERIOR**
U.S. WELL NUMBER: **47-083-00124-00-00**
Vertical Re-Work
Date Issued: **1/14/2026**

Promoting a healthy environment.

01/16/2026

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.

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 Randolph Dry Fork Sinks of Gandy, WV

Operator ID County District Quadrangle

2) Operator's Well Number: Gladys 7471 3) Elevation: 3480.4

4) Well Type: (a) Oil _____ or Gas _____

(b) If Gas: Production _____ / Underground Storage _____
Deep _____ / Shallow _____

5) Proposed Target Formation(s): Oriskany Proposed Target Depth: 5331

6) Proposed Total Depth: 5587 Feet Formation at Proposed Total Depth: Oriskany

7) Approximate fresh water strata depths: 1240' as reported by driller

8) Approximate salt water depths: none 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 a fresh water treatment. Following results of FWT, may need to perform coil tubing cleanout and 2000 gallon
15% HCL stimulation.

* casing and equipment listed below are existing

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	13-3/8 *	H-40	48	44	44	20 sx
Fresh Water	9-5/8 *	H-40	32	1687	1687	600 sx
Coal						
Intermediate						
Production	7 *	J-55 / N-80	23	5336	5336	700 sx
Tubing						RECEIVED Office of Oil and Gas
Liners						

Packers: Kind: _____

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Sizes: _____

WV Department of
Environmental Protection

Depths Set: _____

01/16/2026

Kenny Willatt 1/14/26

WELL JOB PLAN

STS Well Engineering & Technology

PAGE 1

DATE JOB PREPARED: 03.29.2024

Objective: Restrore Deliverability

LAST PROFILE UPDATE:

TITLE: FWW, flow, HRVRT + CBL logs, if needed CTCO						WORK TYPE:	
FIELD: Gladys			WELL ID: 7471			LEASE #: 90700	
STATE: WV			SHL (Lat/ Long) 38.749762		-79.721611	API: 47-083-00124	
DIST/TWP: Dry Fork			BHL (Lat/Long) 38.749762		-79.721611	CNTY: Randolph	
EXISTING TUBULAR CONFIGURATION			OD (inches)	WEIGHT (PPF)	DEPTH (ft)		WELLLINE #: X77W7471
Conductor			13 3/8	48.0	GRADE: H-40	TOP: 0	FORMATION: refer to MISC INFORMATION section
Surface			9 5/8	32.0	THREAD: H-40	BOTTOM: 44	PAY: TD: 5587
Production			7	23.0	J-55 buttress	1687	ELEVATIONS TMG:
Production			7	23.0	N-80	5331	PBTD: KB-RF:
Tubing			Pulled 2005		8rd	5336	GL:
Perforations			None reported, openhole completion / acid frac				CSG DEPTH WELLBORE SCHEMATIC
Wellhead			API 3k, 7" flowstring x 9-5/8" support, 7" 8rd wellhead connection				Refer to "Wellbore Diagram" tab
D.H. EQUIPMENT			TYPE		DEPTH (ft)		
PACKER INFO:			Upper				
			Lower				
NIPPLE PROFILE INFO:			Upper				
			Lower				
SSSV INFO:							
CEMENT INFO			Calc TOC (ft)				
13 3/8	Cemented with 20 sx cmt.				0		
9 5/8	Cemented with 500 sx Litepoz & 100 sx neat w/ 3% CaCl2				0		
7	Cemented with 200 sx Litepoz & 500 gal Latex.				3335		
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):			2391	psig	* input		
Maximum storage field surface pressure (MAOP):			2050	psig	* input		
Well TD:			5587	ft TVD	* input		
Top of storage zone (Oriskany):			5331	ft TVD	* input		
Calculated maximum BH pressure at top of zone:			2356	psig	* output Kill Fluid (TOZ)		
Kill fluid density at top of zone @: 150 psi OB			9.04	ppg	* output Kill Fluid (TOZ)		
Proposed depth of RBP (n/a):			5331	ft TVD	* input		
Calculated maximum BH pressure at depth of BP:			2356	psig	* output Kill Fluid (BP)		
Kill fluid density at depth of BP @: 150 psi OB			9.04	ppg	* output Kill Fluid (BP)		
Required minimum kill fluid density:			9.1	ppg	* greater of the two		
Current AOF: 140,730 MCF/D							
Top historical AOF: 184,282 MCF/D							
Last MVRT: 7/17/2013 Baker HRVRT indicates 5 external metal loss features over 20%, highest being 28% at 610'.							
SBT: None available.							
PROPOSED YEAR: 2026		ERCB PERMIT REQD: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> DT. APPLIED: ISSUED:	(Internal) PDS Required: YES <input type="checkbox"/> NO <input type="checkbox"/>				
PREPARED BY: Maria Medvedeva		REVIEWED BY: James Ames	APPROVED: Brent Criser				
PREP DATE: 03.29.2024							

WELL JOB PLAN		STS Well Engineering & Technology	PAGE 2	DATE JOB PREPARED: 03.29.2024
Objective: Restore Deliverability				LAST PROFILE UPDATE: 0
TITLE: FWW, flow, HRVRT + CBL logs, if needed CTCO			WORK TYPE:	0
FIELD: Gladys	WELL: 7471			
STAT: WV	SHL (Lat/Long): 38.749762 -79.721611		API:	47-083-00124
TWP: Dry Fork	BHL (Lat/Long): 38.749762 -79.721611		CNTY:	Randolph
PROCEDURE				

NOTE: Well performance has fallen off from historical best. Best tests for the well were following acid job after initial completion and injection test conducted in 2016.

- 1 Obtain State Permit, EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
- 2 Notify landowner.
- 3 Obtain General Work Permit and Wellsite Review & Turnover Form from Operations.
- 4 Notify Reservoir Engineering & Geosciences (REG) of intent to take well out of service.
- 5 Notify environmental inspector prior to beginning work. If required, notify State/Federal regulatory agencies prior to beginning work.
- 6 Prepare access road and well site. Install ECD's per EM&CP.
- 7 Service all wellhead valves.
- 8 Document initial flowstring and annular pressures.
- 9 Pump 20 bbls TFW down casing and allow to soak.
- 10 Perform a 45-min flowback test. Pending flowback results, may have to perform a CTCO and acid stimulation (Step 25+). Record data in the FLOWTEST and GAS LOSS DATA SHEET.
- 11 RU loggers, wireline BOP, lubricator, etc.
- 12 Obtain HRVRT log.
- 13 RDMO loggers.
- 14 Re-install wellhead cap / BHTA.
- 15 Return wellhead valves to pre-logging position.
- 16 Notify WET Project Support that well is back in-service.
- 17 Reclaim R&L.
- 18 Commission well by completing, processing, and retain for records the Wellsite Review and Turnover Form.
- 19 Notify REG / WE&T that well is ready for storage service.

If flowback test results dictate, complete a CTCO and acid stimulation as per below.

- 25 MIRU 1.75" CTU and H2S monitoring service.
- 26 Flow well. If well won't flow unload with nitrogen.
- 27 Perform CTCO and 2000 gallons of 15% HCL treatment.
- 28 RDMO CTU.
- 29 Flow well to recover treatment fluids.
- 30 Perform final 45-min flowback test thru 3/4" choke. Record data in the FLOWTEST and GAS LOSS DATA SHEET.
- 31 Notify WET Project Support that well is back in-service.
- 32 Reclaim R&L.
- 33 Reconnect well line.
- 34 Commission well by completing, processing, and retain for records the Wellsite Review and Turnover Form.
- 35 Notify REG that well is ready for storage service.

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PREPARED BY:	Maria Medvedeva	REVIEWED BY:	James Amos	APPROVED:	Brent Criser
PREP DATE:	03.29.2024				

Gladys 7471 (API 47-083-00124) - CTCO and Acid Treatment

API 3K wellhead, 7" FS x 9-5/8" support

7" 23# J-55 csg set at 5336

Burst: 4360 psig new (3488 psig assuming 80% safety factor)

Capacity: [5336 ft x 1.6535 gal/ft] = 8822.84 gals; x 0.0394 bbl/ft = 210.07 bbls

Openhole

Capacity 8-1/2" hole: 251 ft x 0.07019 bbl/ft = 17.62 bbls

Total Capacity: 228 bbls

Oriskany: 5331 – 5570

Perforations: Openhole

TD: 5587

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 +/- 500 bbls fresh water. Liquid caustic on location in case need to neutralize flowback fluids.

** Prior to acid treatment verify that the 7" x 9-5/8" annulus 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 2500 psig*
3. Open well and RIH under static conditions.
4. At 5100 begin jetting with foamed TFW. Jet to TD and cycle up and down across interval 5300 – TD.
5. Begin 15% HCl acid foamed to 50Q and cycle up and down across interval 5300 – 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 4800'. 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
 - 50 bbls bbls TFW 4-6 BPM Max Treating Press = 2000 psig
 - 50 bbls bbls TFW 4-6 BPM Max Treating Press = 1500 psig
 - 40 bbls bbls TFW 4-6 BPM Max Treating Press = 1000 psig
 - 40 bbls TFW 2-4 BPM Max Treating Press = 1000 psig
 - *SHUT DOWN FOR 30 minutes TO ALLOW ACID TO SOAK*
 - 30 bbls TFW 2-3 BPM Max Treating Press = 1000 psig
 - *SHUT DOWN FOR 30 minutes TO ALLOW ACID TO SOAK*
 - 20 bbls TFW 2-3 BPM Max Treating Press = 1000 psig

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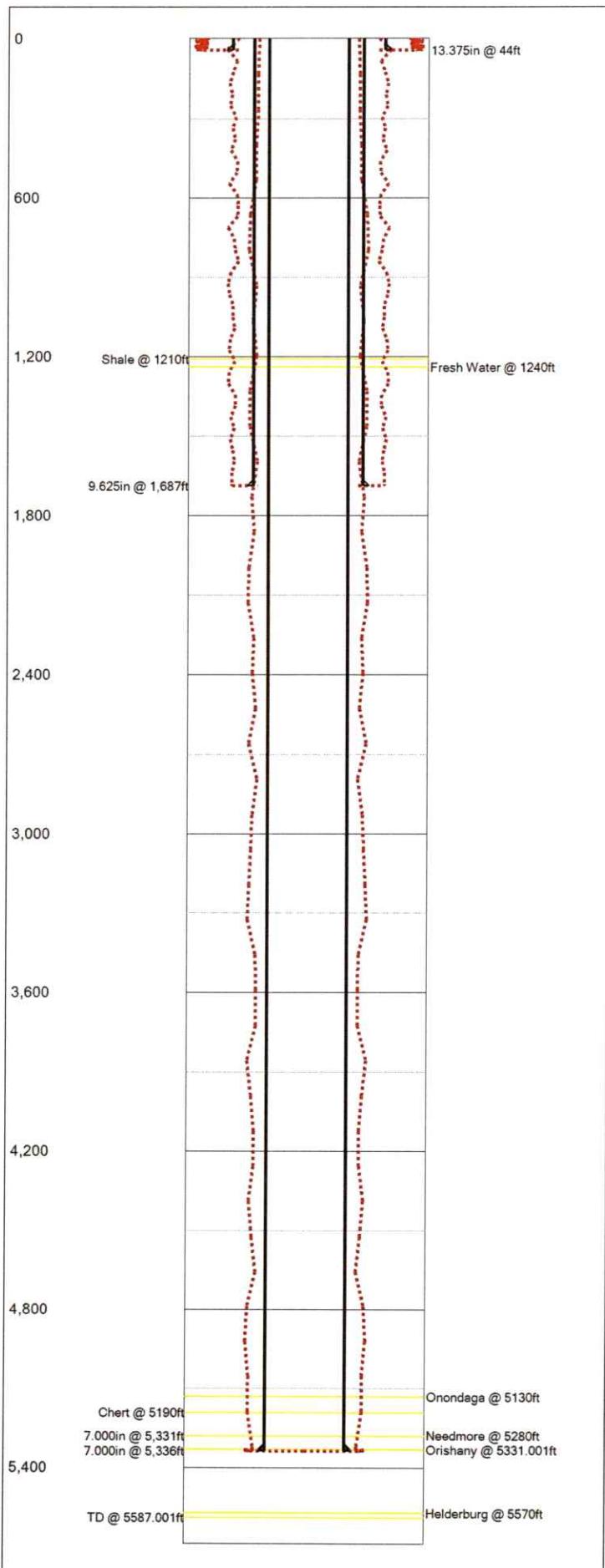
2. Flow well. If well quits flowing, RBIH with CT unloading fluid with N2.
3. RDMO and release CTU / acid equipment.

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



Field Name		Lease Name		Well No.			
Glady		Glady - 07471		07471			
County		State		API No.			
RANDOLPH		WV		47083001240000			
Version	Version Tag						
0	Current Completion						
G.L. (ft)	K.B. (ft)	Sec.	Township/Block	Range/Survey			
5,587.0	5,587.0	164-87	DRY FORK	100207471			
Operator		Well Status		Latitude			
TransCanada		ACTIVE		38.7498			
Dist. N/S (ft)		Dist. E/W (ft)	E/W Line	Footage From			
PropNum			Spud Date	Comp. Date			
MINERALS MANAG LN			8/1/1966				
Additional Information							
Follow road past Compressor Station 5/10 of a mile. Cross bridge and take 1st road to right. Follow to the "Y". Go right thru gate and follow main road 1 5/10 mile. Location is on the right.							
Other1	Other2		Other3	Other4			
Glady	1002		100207471				
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			
8/1/1966	17.500	0	44				
8/2/1966	12.250	0	1,687				
8/3/1966	8.750	0	5,331				
8/3/1966	8.750	5,331	5,336				
Tubular Summary							
Date	Description		O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
8/1/1966	Casing		13.375	48.00	H-40	0	44
8/2/1966	Casing		9.625	32.00	H-40	0	1,687
8/3/1966	Casing		7.000	23.00	J-55	0	5,331
8/3/1966	Casing		7.000	23.00	N-80	5,331	5,336
Formation Tops Summary							
Formation		Top (TVD ft)	Comments				
Shale		1,210	Comments: Fresh Water 1240				
Fresh Water		1,240					
Onondaga		5,130					
Chert		5,190					
Needmore		5,280					
Orishany		5,331	Comments: Gas 5337-5442				
Helderburg		5,570					
TD		5,587					

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WELL DATA

Mark Abeyouan 11-1-84
PREPARED BY-DATE

COMPLETION OR RECONDITION DATE	O. F. - MCF 10 Open Flow Mo. Day Yr.	1000 Cubic Feet (Pounds Per Square Inch Gauged)	10PSIG
7-31-66	BEFORE Acid 11/72	NA	
9-4-66	ACID ACID 142, PIG	1710	

FIELD	GRADY	WELL NO.	7471
SEC/LOT/M.S.	164-87	TWP/DIST.	Dry fork
COUNTY	RAVENSBURG	STATE	WV
FARM NAME	USA		
ELEVATION	3482.2	GL	3499.2 RKB
ORIGINAL TOTAL DEPTH	5587'		

CASING & TUBING

YEAR	SIZE	WT.	GRADE	DEPTH	CEMENT, PACKERS & REMARKS
1966	13 3/8"	48 pcf	H-40	33'	CEMENTED WITH 20 SACKS OF CEMENT
1966	9 5/8"	32 pcf	H-40	1687'	COINTEGRATED WITH 500 SACKS POZMIX
1966	7"	23 pcf	J-55 (Btu)	5336'	AND 3% CaCl ₂ . CIRCULATED TO SURFACE,
		23 pcf	N-80		CEMENTED WITH 300 SACKS LATEX
1966	2 7/8"	47 pcf	J-55 (Btu)	5579'	AND 600 SACKS LATEX

WELLHEAD VALVE - SIZE & TYPE LOG THRU 12 7/8", FLC, 3000#WTC CHAMFER BALL
VALVE, 2 NWS 1/2" VALVES - 4", FLC, 3000#WTC CHAMFER BALL VALVE.

COMPLETION

NATURAL	SHOT	ACIDIZED	1966	FRACTURED
DATE & DETAIL 8-4-66 WITH 12,000 GAL 28% HCl ACID AND 4,000 64L WATER. QUIET FLOW.				

PLUG BACK-DRILL DEEPER-RECONDITION-(DETAIL)	RECEIVED
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WV 239352
E. 1000 ft. S. 1000 ft.

LOGS (TYPE & DATE)

8-9-84 TEMPERATURE, GAMMA RAY, TDT-6K, AND EMPTY HOLE CUBE
SCM (SCHLUMBERGER)

PERFORATED INTERVALS & REMARKS

REMARKS	PERMIT # RAN-124	LETHEDOV - TULLY 4055- 4075' MARCELLUS SHALE 4075'-5130' ONONDAGA LIMM 5130'-5190' NEED MORE SHM 5200-5331 OXBOW SHM 5331-5370 HENDERBERRY 5370', TD 5587'. FPT 34 WATER 2 1240', GAS 5337'-5340'- 5335'.
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FARM United States of America
COUNTY Randolph
STATE West Virginia
ELEVATION 3482.20

WELL NO. X-77-7471
MAP SQUARE 164-87
DIVISION ELKINS
FORMATION Oriskany

ESTIMATED CASING POINTS

CABLE TOOLS

16" _____
13 3/8" _____
10 3/4" _____
8 5/8" _____
7" _____
5 1/2" _____
4 1/2" _____
3 1/2" _____

ROTARY

16" _____
13 3/8" 30'
10 3/4" _____
9 5/8" 1250' RECEIVED
8 5/8" _____ DEC 19 2025
7 5/8" _____
7" 5245' W. Va. Department of
4 1/2" _____ Environmental Protection

TOTAL DEPTH _____

TOTAL DEPTH 5440

SAVE SAMPLES:

FROM 4650
FROM _____

TO T.D 5440
TO _____

REMARKS: _____

GEOLOGY

PRODUCTION

RECOMMENDED LOGGING PROGRAM

log as required

J. F. 6-7-66
GEOLOGY

log is necessary

J. M. Hannah
PRODUCTION

WELL NO. 7471

DATE 6-7-66

1). Date: 10/31/25
2.) Operator's Well Number Gladys 7471
State County Permit
3.) API Well No.: 47- 083 - 00124

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: US Dept of Interior (managed) 5) (a) Coal Operator
(a) Name US Dept of Interior (managed) Name Not operated
Address PO Box 1158
Elkins, WV 26241
(b) Name Address
Address
(c) Name Address
Address

6) Inspector Kenny Willett 5) (b) Coal Owner(s) with Declaration
Address 2393 Tallmansville Rd
Buckhannan, WV 26201
Telephone 681-990-2567 Name Not operated
Address
Name
Address

6) Inspector Kenny Willett 5) (c) Coal Lessee with Declaration
Address 2393 Tallmansville Rd
Buckhannan, WV 26201
Telephone 681-990-2567 Name Not operated
Address

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TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

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

OR

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

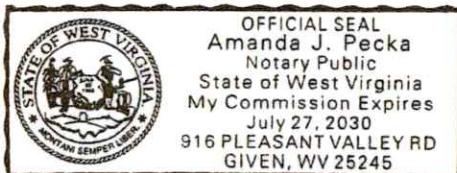
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by:

Personal Service (Affidavit attached)
 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

4th day of

November, 2025

Notary Public

Amanda J. Pecka
My Commission Expires 7/27/2030

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

01/16/2026

Note that this well is located in the Monongahela National Forest. The surface owner is the US Department of the Interior, and is managed by the BLM and US Forestry Service. Both parties have been notified and approved the proposed well work via the Sundry Process. BLM Sundry Approval was obtained 10/10/25. USFS Erosion Control Plan approval was obtained 10/16/25.

WW-2A Surface waiver

(4/16)

SURFACE OWNER WAIVER

County Randolph Operator Columbia Gas Transmission LLC
Operator well number Gladys 7471

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.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENTS.

N: RECOMMENDED
Office of Oil and Gas

DEC 19 2025

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 _____ Date _____
Its _____

Print Name

Signature

Date

01/16/2026

Well Name:	Well Location: 38.74992 / -79.72192	County or Parish/State: RANDOLPH / WV
Well Number: 7471	Type of Well: INJECTION - ENHANCED RECOVERY	Allottee or Tribe Name:
Lease Number: UNLEASED	Unit or CA Name: GLADY GAS STORAGE/MNF/FS	Unit or CA Number: WVES39982
US Well Number: 4708300124	Operator: COLUMBIA GAS TRANSMISSION LLC	

Notice of Intent

Sundry ID: 2877792

Type of Submission: Notice of Intent

Type of Action: Workover Operations

Date Sundry Submitted: 10/09/2025

Time Sundry Submitted: 08:05

Date proposed operation will begin: 06/01/2026

Procedure Description: Columbia Gas intends to perform a freshwater wash (FWW) on the well, run cased hole logs and flowback. Pending the results of the flowback after FWW, perform a coil tubing cleanout and acid stimulation if needed.

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Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Job_Plan__Gladys_7471__FWW__log__if_needed_CTCO__v.03.29.24_20251009080015.pdf

Well Name:	Well Location: 38.74992 / -79.72192	County or Parish/State: RANDOLPH / WV
Well Number: 7471	Type of Well: INJECTION - ENHANCED RECOVERY	Allottee or Tribe Name:
Lease Number: UNLEASED	Unit or CA Name: GLADY GAS STORAGE/MNF/FS	Unit or CA Number: WVES39982
US Well Number: 4708300124	Operator: COLUMBIA GAS TRANSMISSION LLC	

Conditions of Approval

Specialist Review

20251010_Columbia_Gas_Transmission_WVES_39982_7471_Workover_20251010125737.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MARIA MEDVEDEVA

Signed on: OCT 09, 2025 08:05 AM

Name: COLUMBIA GAS TRANSMISSION LLC

Title: Sr Well Engineer Well Engineering & Technology

Street Address: 1700 MACCORKLE AVENUE SE

City: CHARLESTON **State:** WV

Phone: (304) 410-4313

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Email address: MARIA_MEDVEDEVA@TCENERGY.COM

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Field

Representative Name: Steve Simmons

Street Address: 48 Columbia Gas Rd

City: Sandyville **State:** WV

Zip: 25275

Phone: (304)590-5528

Email address: steven_simmons@tcenergy.com

BLM Point of Contact

BLM POC Name: TREY A MITCHELL

BLM POC Title: Petroleum Engineer

BLM POC Phone: 4142974438

BLM POC Email Address: tmitchell@blm.gov

Disposition: Approved

Disposition Date: 10/10/2025

Signature: Trey Mitchell

01/16/2026

Maria Medvedeva

From: Maria Medvedeva
Sent: Thursday, October 16, 2025 2:09 PM
To: Scrafford, Hannah - FS, WV
Subject: RE: [EXTERNAL] Re: [External Email]2026 Gladys 7471 project

Hannah,

You are most welcome. Thank you for the review, feedback and approval of the Erosion Control Plan and Reclamation Plan. I've edited the file name to include today's date for document version control only.

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

From: Scrafford, Hannah - FS, WV <Hannah.Scrafford@usda.gov>
Sent: Thursday, October 16, 2025 11:52 AM
To: Maria Medvedeva <maria_medvedeva@tcenergy.com>
Subject: Re: [EXTERNAL] Re: [External Email]2026 Gladys 7471 project

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Hi Maria,

Okay, sounds good, thank you for clearing that up!

I went and changed out the other non native species in the list too. Please let me know if you have any concerns with the new species lists!

Sincerely,
Hannah



Hannah Scrafford
Range and Minerals Technician
Forest Service
Monongahela National Forest, Greenbrier Ranger
District
p: 304-718-2947
f: 304-456-3441
hannah.srafford@usda.gov
7409 Staunton Parkersburg TPKE
Bartow, WV 24920

From: Maria Medvedeva <maria_medvedeva@tcenergy.com>
Sent: Thursday, October 16, 2025 11:09 AM
To: Scrafford, Hannah - FS, WV <Hannah.Scrafford@usda.gov>
Subject: RE: [EXTERNAL] Re: [External Email]2026 Glad 7471 project

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Hannah, good morning,

Glad to hear that everything is going well! Thanks for getting back to me so quick.

Regarding your questions –

1. Tree cutting is not required. It's a little misleading on the depictions with how the google image map is coming up. Below is a summary form of the field scoping of access road and well site.

Location: Glad 7471											
ACCESS ROAD											
	Yes	No	N/A								
All roads are in good shape, may need some gravel in spots.				Cross Company Lines			x				
				Cross Foreign Lines					x		
				Adjacent Company Lines						x	
				Adjacent Foreign Lines						x	
One Call Active	x			Railroad Tracks w/in 75ft				x			
Road Need Gravel	x			People Living w/in 300ft				x			
Limited Line of Site		x		School Bus Route				x			
One Way / Road Narrowing		x		ATV / UTV Trails				x			
Bridge Crossing	x			Company Facility			x				
Stream Crossing	x			Foreign Facility					x		
Wetlands / Water Present		x		Security Recommended				x			
Hazardous Slopes	x			Parking off ROW				x			
Trees / Structures Present		x		Traffic Control Needed				x			
Buried Utilities			x	Cell Phone Reception				x			
Overhead Utility Lines	x			Additional Hazards: No Hazards on roads, no tree cutting.							
Height of Lines:											
WORK AREA											
	Yes	No	N/A								
Location is big, will just need a little grave and matt work area.				Buried Utilities				x			
				Cross Company Lines					x		
				Barriers Needed				x			
				Traffic Control Needed				x			
Adjacent Road		x		People Living w/in 300ft				x			
Location Need Gravel	x			Security Recommended				x			
Wetlands / Water Present			x	Parking off ROW				x			
Hazardous Slopes		x		Cell Phone Reception				x			
Trees / Structures Present		x		Additional Hazards: No Hazards on site, no tree cutting.							

Staged Equipment / Material	x							
Additional Hazards or Remarks (e.g. wildlife, poison ivy, construction / simultaneous operations, etc.)								
No hazards on location								

2. We will utilize whatever seed mix you would prefer. Please edit the text as per the seasonal needs. The current text was only a go by from a most recent Gladys job.

Thank you!

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

From: Scrafford, Hannah - FS, WV <Hannah.Srafford@usda.gov>
Sent: Thursday, October 16, 2025 10:09 AM
To: Maria Medvedeva <maria_medvedeva@tcenergy.com>
Subject: [EXTERNAL] Re: [External Email]2026 Gladys 7471 project

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EXTERNAL EMAIL: PROCEED WITH CAUTION.

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe. If this email looks suspicious, report it.

Hi Maria,

Thank you, I am doing well and I hope you are too!

I have reviewed the materials and have a few comments and questions:

1. The depiction appears to show some of the treed area as part of the disturbance area. Is that accurate? Will any trees be removed?
2. On the seed mix for the Fall mix, would you be able to switch Brown top millet, *Panicum racemosum* (non native to this area) out for Deer tongue, *Dichanthelium clandestinum*?

Sincerely,
Hannah



Hannah Scrafford
Range and Minerals Technician
Forest Service
Monongahela National Forest, Greenbrier Ranger
District
p: 304-718-2947
f: 304-456-3441
hannah.srafford@usda.gov
7409 Staunton Parkersburg TPKE
Bartow, WV 24920

From: Maria Medvedeva <maria_medvedeva@tcenergy.com>
Sent: Monday, October 13, 2025 11:12 AM
To: Scrafford, Hannah - FS, WV <Hannah.Scrafford@usda.gov>
Subject: [External Email]2026 Gladys 7471 project

You don't often get email from maria_medvedeva@tcenergy.com. [Learn why this is important](#)

[External Email]

If this message comes from an **unexpected sender** or references a **vague/unexpected topic**;

Use caution before clicking links or opening attachments.

Please send any concerns or suspicious messages to: Spam.Abuse@usda.gov

Hannah, good afternoon,

I hope you've been well. I would like to share with you for review/comments and approval job documents for a 2026 project at one of our storage wells in Gladys. The well project is to perform a freshwater wash downhole, log and flowback the well. If flowback data supports the need for, we will follow up with a coil tubing cleanout and acid stimulation of the well.

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

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WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

* coal not operated

County Randolph
Operator Columbia Gas Transmission LLC

Operator's Well Number Glad 7471

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.

Signature _____ Date _____

Company
Name
By
Its _____

Date _____

Signature _____ Date _____

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**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
US Dept of Interior and Office of Natural Resources Revenue	Columbia Gas Transmission ATLANTIC SEABOARD	Storage Lease - 1090700-000 MMS LEASE # 890-008534-0	not listed

**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

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

01/16/2026

WW-2B1
(5-12)

Well No. Gladys 7471

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

FEC - M. C. G. G.
Office of Oil and Gas

Well Operator

Not applicable - existing underground natural gas storage well

DEC 19 2025

Address

WV Department of
Environmental Protection

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.

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) East Fork of Gladys Fork Quadrangle sinks of Gandy, 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))

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, HCl acid

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.

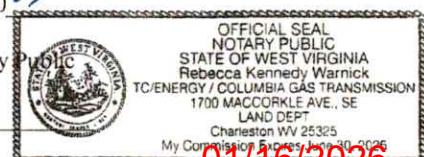
Company Official Signature _____

Company Official (Typed Name) Maria Medvedeva

Company Official Title Senior Wells Engineer Storage Technical Services

Subscribed and sworn before me this 16th day of October, 2025

My commission expires 6/30/26 1700 MACCO LAND



Proposed Revegetation Treatment: Acres Disturbed < 1.0 Prevegetation pH per USFSLime per USFS Tons/acre or to correct to pH per USFSFertilizer type per USFSFertilizer amount per USFS lbs/acreMulch per USFS Tons/acre**Seed Mixtures****Temporary****Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

US Forest Service to determine seed mix and vegetation treatment requirements.

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: Ky Willett

Comments: _____

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Title: ImpactsDate: 11/22/25Field Reviewed? Yes No

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): East Fork of Glad Fork Quad: Sinks of Gandy 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.

East Fork of Glad Fork is at a distance of 0.53 miles S / SE.

The Bemis Campground (WV9942097) is the closest Well Head Protection Area at a distance of 4.15 miles N from discharge area.

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

N/A

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

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for deicing or fill material on the property.

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

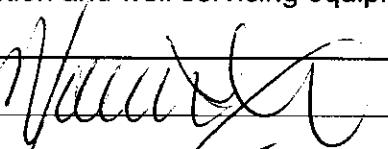
During routine tailgate and JSA meetings groundwater protection will be a topic of discussion.

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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: 10/13/25

USFS Erosion Control Plan Gladys well 7471 (API 47-07-00124)

Scope of Well Work

- Perform a freshwater treatment. Pending the results from the treatment, potentially perform a coil tubing cleanout and acid stimulation.

Access Roads

- Upgrade roadways to accommodate equipment as needed.
- Vehicle travel to be confined to existing access roads.
- Existing drainage and road surface to be maintained during planned work activities.
- Upon completion of work, access roads to be restored to pre-existing condition as approved by the USFS.

Well Site

- All equipment, tanks, material, vehicles to be confined to pre-disturbed perimeter of well site.
- Perform minor grading to accommodate equipment as needed.
- Apply crushed limestone on well site as needed to stabilize soils and equipment.
- Use portable toilets during plugging and abandonment activities.
- Clean up and properly dispose of all trash generated by project.
- Ensure proper collection, storage, and disposal of all fluids off Forest Service lands.
- No hazardous and flammable materials to be stored on site.
- Remove surface structures.
- Upon completion of work, minor grading, raking, seeding, fertilizing, and mulching to be performed to restore site to pre-existing condition.
- After reclamation, reshape and clean all ditches and dips, clean culverts on access road, reshape and repair the road surface.
- Leave the locked gate on the roadway as is.

Seed Mix

For spring and fall at 10-15 pounds/acre:

Virginia Rye, *Elymus virginicus*, ~5 lbs/acre
Little Bluestem, *Schizachyrium virginicum*, ~5 lbs/acre
Partridge Pea, *Cassia fasciculata*, ~2 lbs/acre
Beaked Panicgrass, *Panicum anceps*, ~2 lbs/acre

For summer at 10-15 pounds/acre:

Virginia Rye, *Elymus virginicus*, ~6 lbs/acre
Little Bluestem, *Schizachyrium virginicum*, ~3.5 lbs/acre
Deer Tongue, *Panicum clandestinum*, ~2.5 lbs/acre
Partridge Pea, *Cassia fasciculata*, ~2 lbs/acre
Beaked Panicgrass, *Panicum anceps*, ~2 lbs/acre

Fertilizer 10-20-10 @ 500 lbs/acre

Agriculture lime or pellets @ 3 ton/acre

Mulch – weed free straw @ 1500 lbs/acre

Misc

- Earth moving equipment to be pressure washed prior to entering Monongalia National Forest (MNF). Road vehicles to be pressure washed prior to entering MNF if there is a buildup of soil underneath or on the vehicle. Additionally, equipment is to be washed between sites.

WV DEP Reclamation Plan - Side Detail

Gladys well 7471 (API 47-083-00124)

- 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



USFS Erosion Control Plan

Glady well 7471 (API 47-083-00124)

- BMPs to be utilized per WV DEP guidelines
- Requirements by US Forest Service to be implemented

Limits of Disturbance

- Existing road surface and culverts to be maintained during construction and restored to pre-existing condition post construction
- Earth disturbance on well site to be confined to predisturbed area
- Minor grading and application of crush limestone to provide stabilization for equipment
- Well site to be restored to as near original contour as feasible

Google Earth

Image © 2025 Maxar Technologies

~0.5 acres
Limit of proposed disturbance
on existing well site

Existing
access
road

Glady - 07471

Silt Fence

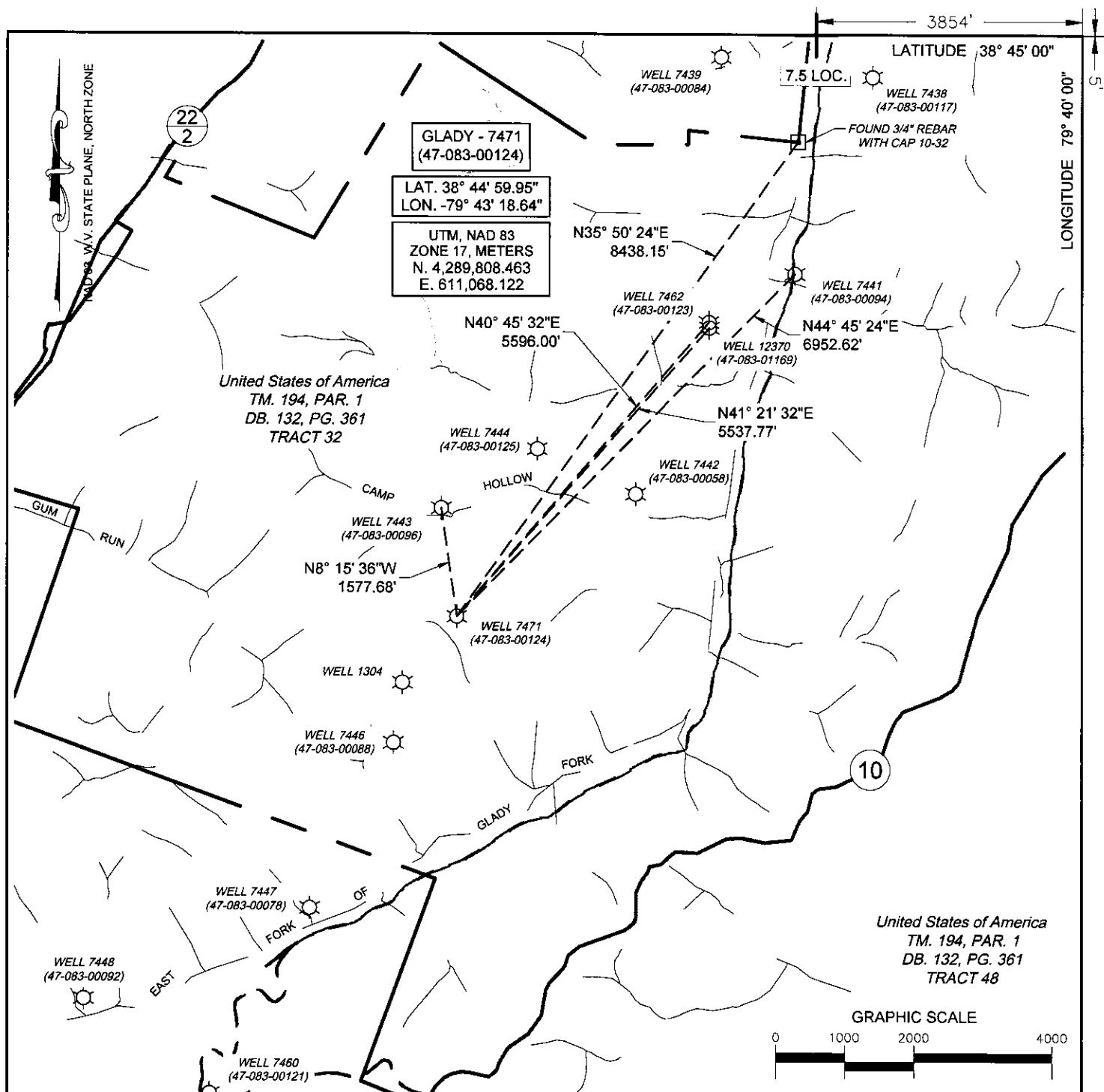
385

300 ft

N

Legend
Glady - 07471
GY 7471 CWA
01/16/2026



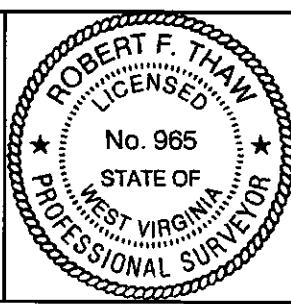


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No 2501-3079-001-003
 DRAWING No. GLADY 7471
 SCALE 1" = 2000'
 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) R. Thaw ROBERT F. THAW PS #965



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



DATE OCTOBER 8 2025
 OPERATOR'S WELL No. 7471
 API WELL No.

47 083 — 00124
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 3480.4' WATER SHED EAST FORK OF GLADY FORK
 DISTRICT DRY FORK COUNTY RANDOLPH
 QUADRANGLE SINKS OF GANDY, WV
 SURFACE OWNER US DEPARTMENT OF INTERIOR (MANAGED BY USFS) ACREAGE 4540.89
 OIL & GAS ROYALTY OWNER OFFICE OF NATURAL RESOURCES REVENUE US DEPARTMENT OF INTERIOR
 LEASE ACREAGE 48212 LEASE NO. 1090700-000 MMS LEASE # 890-008534-0
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE
01/16/2026
 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 5587
 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

2025, December 18th

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

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

Glady 7471 (API 47-083-00124)

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,



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

RECEIVED
Office of Oil and Gas

DEC 19 2025

WV Department of
Environmental Protection



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

well work permit issued for 4708300124

1 message

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

Wed, Jan 14, 2026 at 9:15 AM

To: Kenny S Willett <kenny.s.willett@wv.gov>, Maria Medvedeva <maria_medvedeva@tcenergy.com>, pyokum@assessor.state.wv.us

To whom it may concern, a well work permit has been issued for 4708300124.

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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

[4708300124.pdf](#)
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01/16/2026