



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, December 3, 2025
WELL WORK PLUGGING PERMIT
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for RIPLEY 12409
47-035-02408-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

H. Jason Harmon
Acting Chief

Operator's Well Number:
Farm Name: LANDFRIED, JOHN & JOANN
U.S. WELL NUMBER: 47-035-02408-00-00
Vertical Plugging
Date Issued: 12/3/2025

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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. 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.

1) Date 10/14, 2025
2) Operator's
Well No. Ripley 12409
3) API Well No. 47-035 - 02408

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X/ Liquid injection ____/ Waste disposal ____/
(If "Gas, Production ____ or Underground storage X) Deep X/ Shallow ____

5) Location: Elevation 733 Watershed Sycamore Creek
District Ripley County Jackson Quadrangle Ripley, WV

6) Well Operator Columbia Gas Transmission LLC 7) Designated Agent Maria Medvedeva
Address 1700 MacCorkle SE Address 1700 MacCorkle SE
Charleston, WV 25314 Charleston, WV 25314

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Joe Taylor Name Next Lvl Energy, LLC
Address 1478 Claylick Road Address 736 W Ingomar Rd, Units 268
Ripley, WV 25271 Ingomar, PA 15127-6613

10) Work Order: The work order for the manner of plugging this well is as follows:

Refer to enclosed:

- 1) Well job plan.
- 2) Prior to P&A wellbore schematic.
- 3) Proposed P&A wellbore schematic.

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Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.


Work order approved by inspector



Date

10-16-25

12/05/2025

WELL JOB PLAN		STS Well Engineering & Technology		PAGE 2	DATE JOB PREPARED: 3/31/2024
Objective: Plug and Abandon				LAST PROFILE UPDATE:	
TITLE: Plug and Abandon			WORK TYPE: 0		
FIELD: Ripley	WELL: 12409				
STAT: WV	SHL (Lat/Long):	38.823925 -81.681152	API: 47-035-02408-0000		
TWP: Ripley	BHL (Lat/Long):	38.823925 -81.681152	CNTY: Jackson		
PROCEDURE					
<p>NOTE: Cement used will be API Class A, slurry weight 15.6ppg, slurry yield 1.18 cuft/sk or API Class L, slurry weight 15.6ppg, slurry yield 1.14 cuft/sk, as per the approved WVDEP Variance Order No.2022-13. All spacers will be 6% Bentonite gel. Historic annulus pressure 7x9 per gas samples are likely native gas composition.</p>					
<ol style="list-style-type: none"> 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 serviceable wellhead valves. 9 Document and report to WE&T the initial casing and annular pressures. 10 Blow down all annuli, replace fittings as needed, and leave annuli open to atmosphere for monitoring. 11 Load / top 7" x 9-5/8", 9-5/8" x 13-3/8" annuli with kill fluid. Document volumes. 12 Kill well with viscosified kill fluid. After well is dead spot 10 bbls LCM pill on bottom. 13 Dig around base of wellhead to uncover casing tops and remove cement if present. 14 MIRU service rig. 15 Remove wellhead equipment down to the tubing spool. 16 Screw in 2-3/8" nipple with full port valve into top of hanger. 17 Strip over and NU 7-1/16" Cameron 5K BOPE (blind / shear + pipe + annular). Will need kill and choke outlets below blind / shear. 18 Function and pressure test BOPE to low (250 psig) and high (2500 psig). 19 Unseat hanger, PU and remove hanger, wash to TD. 20 <u>If able to wash to TD</u> then install balanced cement plug from TD to ~4800' 21 <u>If not able to wash to TD</u> round trip to PU 2-3/8" DP with cut-lip shoe and install balanced cement plug from TD to ~4800' 22 PU above cement top, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC a minimum of 8 hrs. 23 RIH and tag cement. If cement top is deeper than 4900' then spot a second balanced cmt plug. 24 Obtain CBL on 7" casing. Provide digital copy of log to WE&T engineer and consult to confirm next steps. 1998 CBL shows partial / poor cement to 4100', but log was not pulled to surface. 25 Install a cast iron DBP as close to above the cement top as feasible. 26 Top off 7" with kill fluid and perform 500 psig pressure test to verify integrity of BP. 27 Release all annular pressure and top off. Verify well is static. 28 RIH with workstring and install cement plug to match depth of TOC behind 7" casing, ~4100'. 29 ND BOPE and remove tubing spool. 30 Weld pulling nipple on 7" casing, pull seals and slips. 31 NU 11" BOPE (blind ram + pipe ram + annular) on top of the casing head. Need kill / choke outlets below blind / shear. 32 Function and pressure test BOPE to low (250 psig) and high (2500 psig). Report results to WE&T engineer. 33 Wireline freepoint 7" casing. Cut casing above freepoint depth. Pickup 7" csg approx 2 ft to separate at cut, establish circulation to surface with viscosified 4% KCl fluid, circulate until clean, and pull 7" casing. 34 RIH with workstring and tag cement. Install cement plugs in openhole up to the 9-5/8" casing shoe at 2460'. 35 Obtain CBL inside 9-5/8" casing. Provide digital copy of log to WE&T engineer and consult to confirm next steps. 36 <i>Note: per well records 9-5/8" cmt job was to surface, however, volumetric TOC calculation indicates may be as deep as 954'</i> 37 If 9-5/8" TOC is confirmed to be at surface by CBL log, RIH with workstring and tag last cement plug, plugout to surface. Otherwise skip to step 50. 38 ND BOPE. 39 Grout all annuli as deep as possible. 40 RDMO service rig. 41 Erect monument per state regulations. Reclaim location and lease road. 42 P&A complete. 43 Notify REG / WE&T that well is back in-service. 					
<p>* 9-5/8" casing is not cemented to surface per CBL log</p> <ol style="list-style-type: none"> 50 RIH with workstring and tag last cement plug. Install cement plugs to match the depth of TOC behind 9-5/8" casing. 51 ND 11" BOPE. 52 Weld pulling nipple on 9-5/8" casing, pull seals and slips. 53 Wireline freepoint 9-5/8" casing. Cut casing above freepoint depth. Pickup csg approx 2 ft to separate at cut, establish circulation to surface with viscosified 4% KCl fluid, circulate until clean, and pull 9-5/8" casing. 					
PREPARED BY: Maria Medvedeva		REVIEWED BY: James Amos		APPROVED: Brent Criser	
PREP DATE: 3/31/2024				<div style="text-align: right;">  10-10-25 </div>	

OCT 28 2025
WV Department of
Environmental Protection

12/05/2025

WELL JOB PLAN		STS Well Engineering & Technology		PAGE 3	DATE JOB PREPARED: 3/31/2024
Objective: Plug and Abandon					
TITLE: Plug and Abandon				LAST PROFILE UPDATE:	
FIELD: Ripley	WELL: 12409		WORK TYPE: 0		
STAT: WV	SHL (Lat/Long): 38.823925 -81.681152		API: 47-035-02408-0000		
DIST/TWP: Ripley	BHL (Lat/Long): 38.823925 -81.681152		CNTY: Jackson		
PROCEDURE (continued)					

- 54 RIH with workstring and tag top of last cement plug, plugout to surface.
- 55 ND BOPE.
- 56 Grout all annuli as deep as possible.
- 57 RDMO service rig.
- 58 Erect monument per state regulations. Reclaim location and lease road.
- 59 P&A complete.
- 60 Notify REG / WE&T that well is back in-service.

Joe Miller
10-16-25

PREPARED BY: Maria Medvedeva	REVIEWED BY: James Ames	APPROVED: Brent Criser
PREP DATE: 3/31/2024		<div>RECEIVED</div> <div>Office Of Oil and Gas</div> <div>OCT 28 2025</div> <div>WV Department of Environmental Protection</div>

12/05/2025

WELL JOB PLAN				STS Well Engineering & Technology		PAGE 1		DATE JOB PREPARED: 3/31/2024	
Objective: Plug and Abandon								LAST PROFILE UPDATE:	
TITLE: Plug and Abandon				WORK TYPE:					
FIELD: Ripley		WELL ID: 12409		LEASE #: 51820					
STATE: WV		SHL (Lat/ Long) 38.823925		API: 47-035-02408-0000					
DIST/TWP: Ripley		BHL (Lat/Long) 38.823925		CNTY: Jackson					
EXISTING TUBULAR CONFIGURATION		OD (inches)	WEIGHT (PPF)	GRADE	THREAD	DEPTH (ft)		WELLLINE #: X59W12409	
						TOP	BOTTOM	FORMATION: refer to MISC INFORMATION section	
Conductor								PAY:	
Surface		13 7/8	48.0	H-40		0	272	TD: 5052	
Intermediate		9 5/8	36.0	K-55		0	2460	PBTD:	
Production								KB-GL:	
Production		7	23.0	N-80		0	4930	CSG	
Tubing		2 3/8	4.7			0	4925	DEPTH	
Perforations		Open Hole						WELBORE SCHEMATIC	
		Refer to "Wellbore Diagram" tab						Refer to "Wellbore Diagram" tab	
Wellhead		API 5K, 9.625 x 7 x 2.375, 2" 11.5 V wellhead connection							
D.H. EQUIPMENT		TYPE		DEPTH (ft)					
PACKER INFO:		Upper							
		Lower							
NIPPLE PROFILE INFO:		Upper							
		Lower							
SSSV INFO:									
CEMENT INFO		Calc TOC (ft)							
13 7/8	Cement 250sks regular 3% CC	0							
9 5/8	Cemented with 393 sks hi-yield lite + 100 sks regular cement	0							
7	Cemented with 145sx. Partial cmt quality to -->	4835							
MISC INFORMATION									
REFER TO WELL SUMMARY RPT, WELBORE 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):		1922	psig	* input					
Maximum storage field surface pressure (MAOP):		1675	psig	* input					
Well TD:		5052	ft TVD	* input					
Top of storage zone:		4943	ft TVD	* input					
Calculated maximum BH pressure at top of zone:		1903	psig	* output Kill Fluid (TOZ)					
Kill fluid density at top of zone @:		200	psi OB	8.18	ppg	* output Kill Fluid (TOZ)			
Proposed depth of BP:		4800	ft TVD	* input					
Calculated maximum BH pressure at depth of BP:		1896	psig	* output Kill Fluid (BP)					
Kill fluid density at depth of BP @:		200	psi OB	8.40	ppg	* output Kill Fluid (BP)			
Required minimum kill fluid density:		8.4	ppg	* greater of the two					
Current AOF:		2,432	MCF/D						
Top historical AOF:		5,035	MCF/D						
Last MVRT:		None available							
SBT:		Western Atlas 05/08/98 log ran from 4910 - 4100' (top logged interval) showing partial to poor quality, free pipe to surface.							
PROPOSED YEAR: 2025		ERCB PERMIT REQD: YES NO_X		DT. APPLIED: ISSUED:		(Internal) PDS Required: YES NO			
PREPARED BY: Maria Medvedeva		REVIEWED BY: James Amos		APPROVED: Brent Criser					
PREP DATE: 3/31/2024						RECEIVED Office Of Oil and Gas			

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~ not to scale ~

Ripley 12409

Prior to P&A

(as of 03/31/24)

Sea Level @ 739 ft

No fresh water / salt
water zones
reported by driller

Salt Sand 1600 - 1710' MD

Big Lime 1822 - 1910' MD

Big Injun Sand 1950 - 2034' MD

Berea 2390 - 2397' MD

Onondaga Lime 4840 - 4943' MD

Oriskany 4943 - 4968' MD
(gas storage)

Helderberg Lime 4968 - 5052 MD

13-3/8" 48# H-40 casing @ 272' KB
- Cemented with 250sx neat to surface
- Cement basket at 90'

9-5/8" 36# K-55 csg @ 2460' KB
- Cemented with 393sx litecrete and 100sx
neat to surface per well records
- Volumetric calculations suggest TOC 954'

Light grey fill indicates cement in
place during well construction.

Based on Western Atlas 05/08/1998
CBL log, cement quality is partial /
poor 4910 - 4100' (top logged
interval), likely free pipe to surface.

7" 23# N-80 casing @ 4928" KB
- Cemented with 145sx neat
- Cement basket ran in csg string

2-3/8" 4.7# J-55 8 rd tubing @ 4925' KB

6-1/8" openhole
5052' KB

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~ not to scale ~

Ripley 12409

Proposed P&A

(as of 03/31/24)

Sea Level @ 739 ft

No fresh water / salt
water zones
reported by driller

Salt Sand 1600 - 1710' MD

Big Lime 1822 - 1910' MD

Big Injun Sand 1950 - 2034' MD

Berea 2390 - 2397' MD

Light grey fill indicates cement in
place during well construction.

Dark grey fill indicates cement during
the workover

Onondaga Lime 4840 - 4943' MD

Oriskany 4943 - 4968' MD
(gas storage)

Helderberg Lime 4968 - 5052 MD

13-3/8" 48# H-40 casing @ 272' KB
- Cemented with 250sx neat to surface
- Cement basket at 90'

9-5/8" 36# K-55 csg @ 2460' KB
- Cemented with 393sx litecrete and 100sx
neat to surface per well records
- Volumetric calculations suggest TOC 954'
→ based on CBL results, may have to perf
and squeeze to surface during P&A via a
cement retainer

Based on Western Atlas 05/08/1998
CBL log, cement quality is partial /
poor 4910 - 4100' (top logged
interval), likely free pipe to surface.

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7" 23# N-80 casing @ 4928" KB
- Cemented with 145sx neat
- Cement basket ran in csg string

Cast Iron Bridge plug @ 4800'

6-1/8" openhole
5052' KB

12/05/2025

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: John & JoAnn Landfried Operator Well No.: Ripley 12409

LOCATION: Elevation: 739.00 Quadrangle: RIPLEY

District: RIPLEY County: JACKSON
Latitude: 3450 Feet South of 38 Deg. 50Min. 0 Sec.
Longitude 4150 Feet West of 81 Deg. 40 Min. 0 Sec.Company: COLUMBIA GAS TRANSMISSION
P. O. BOX 1273
CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: HOMER DOUGHERTY

Permit Issued: 04/03/98

Well work Commenced: 04/20/98

Well work Completed: 09/22/98

Verbal Plugging

Permission granted on:

Rotary Cable Rig

Total Depth (feet) 5052'

Fresh water depths (ft) N/A

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N

Coal Depths (ft): N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			250 sx to surface
13-3/8"	48#	272'	
9-5/8"	36"	2460'	393 sx lite 100 sx Neat Surface
7"	23#	4928'	145 sx
2-3/8"	4.7#	4925'	

OPEN FLOW DATA

Producing formation Oriskany Storage Pay zone depth (ft) 4943' - 4968'

Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d

Final open flow N/A MCF/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests N/A Hours

Static rock Pressure N/A psig (surface pressure) after N/A Hours

Second producing formation Pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: COLUMBIA GAS TRANSMISSION CORP.

By:

Date: 2/22/99

OCT 28 2025

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12/05/2025

Formation Depths:

	Top	Base
Salt Sands	1600'	1710'
Dig Lime	1822'	1910'
Injun Sand	1950'	2034'
Sunbury Shade	2378'	2390'
Rerea Sandstone	2390'	2397'
Onondaga Lime	4840'	4943'
Oriskany Sandstone	4943'	4968'
Helderbury	4968'	5052'

TD 5052'

* Well was not stimulated.



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Columbia Gas Transmission Corporation
NOTICE OF STORAGE WELL STATUS CHANGE

FORWARD ORIGINAL ONLY TO STORAGE DEPARTMENT

Area St. Albans	Storage Field Ripley	Farm Name Landfried				
Company Well Number 12409	Township-District Ripley	County Jackson	State WV	Lease-Deed No. 51820	Acres 141	Effective Date 12/09/99
Last Active Well on Farm Yes		(This Block for Storage Department Use Only) <input type="checkbox"/> Surrender Lease <input type="checkbox"/> Renew Lease <input type="checkbox"/> Other				
WELL STATUS PRIOR TO THIS REPORT		<input type="checkbox"/> STORAGE -ACTIVE <input type="checkbox"/> STORAGE -SPECIAL <input type="checkbox"/> STORAGE-OBSERVATION <input checked="" type="checkbox"/> DRILLING <input type="checkbox"/> ABANDONED <input type="checkbox"/> PRODUCTION				
WELL STATUS CHANGE OR WORK PERFORMED		<input type="checkbox"/> STORAGE -ACTIVE <input type="checkbox"/> STORAGE -SPECIAL <input type="checkbox"/> STORAGE-OBSERVATION <input checked="" type="checkbox"/> NEW DRILL <input type="checkbox"/> REDRILLED FOR STORAGE <input type="checkbox"/> PLUGGED AND ABANDONED <input type="checkbox"/> SOLD <input type="checkbox"/> PURCHASED FOR STORAGE <input type="checkbox"/> OTHER (See Remarks)				
Remarks: Drilled new storage well in the Oriskany Sandstone. Casing as follows: 13-3/8" 48#/ft H-40 @ 272' KB cemented to surface w/250 sx neat 9-5/8" 36#/ft K-55 @ 2460' KB cemented to surface w/100 sx neat and 393 sx Lite 7" 23#/ft N-80 @ 4928' KB cemented w/ 145 sx neat 2-3/8" 4.7#/ft J-55 @ 4925' KB TD at 5052' KB Well not stimulated Well work started 4/20/98 Well work complete 9/22/98						
NOTED BY: Reservoir Services Engineer: Storage Services Engineer: J.V. McCallister Field Services Investments: SM database changed by: Storage wellbook changed by: <i>K Anq</i>				Initials: Initials: JVM Initials: Initials: Initials: <i>KA</i>		Date: Date: 12/09/99 Date: Date: Date: <i>9/28/00</i>
AUTHORIZATION FOR WORK PERFORMED		Classification: 51-107-00715-W19280-4441 Permit Number: 47-035-02408		Compiled By: J.V. McCallister Date: 12/09/99		

12/05/2025

WW-4A
Revised 6-07

1) Date: 10/14/25
2) Operator's Well Number
Ripley 12409
3) API Well No.: 47 - 035 - 02408

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Timothy Paul and Tammy Casto Harpold</u>	Name <u>Not operated</u>
Address <u>109 Meadowview Dr</u>	Address _____
<u>Ripley, WV 25271</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Joe Taylor</u>	(c) Coal Lessee with Declaration
Address <u>1478 Claylick Road</u>	Name _____
<u>Ripley, WV 25271</u>	Address _____
Telephone <u>304.380.7469</u>	_____

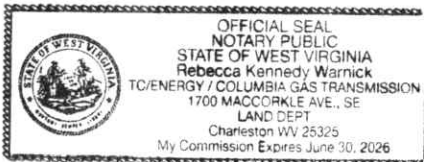
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TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Columbia Gas Transmission
By: Maria Medvedeva
Its: Senior Wells Engineer - Well Engineering and Technology
Address 1700 MacCorkle Ave SE
Charleston, WV 25314
Telephone 304-410-4313

Subscribed and sworn before me this 14th day of October 2025
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.

12/05/2025

SURFACE OWNER WAIVER

Operator's Well
Number

Ripley 12409

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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 **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

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.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

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
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name _____
Signature		By _____
		Its _____

		Date _____

Signature

12/05/2025

Columbia Gas Transmission, LLC

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



2025, October 14

Timothy Paul and Tammy Casto Harpold
109 Meadowview Dr
Ripley, WV 25271

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to plug and abandon an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Ripley 12409 (API 47-035-02408).

As part of the well permitting process, Columbia, the well operator, is required to provide a copy of all applicable permit application forms for your review and record retention.

Regards,

Maria Medvedeva
Senior Wells Engineer
Well Engineering & Technology
Columbia Gas Transmission, LLC

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

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

Ripley, WV 25271

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 Timothy & Tammy Harpold
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

Postmark Here
OCT 14 2025
KINAWHA CITY 25036
CHARLESTON, WV 25304
10/14/2025

7022 2410 0002 6396 3218

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 <u>[Signature]</u> <input type="checkbox"/> Agent <input type="checkbox"/> Address</p> <p>B. Received by (Printed Name) <u>[Signature]</u></p> <p>C. Date of Delivery <u>10-16-21</u></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>														
<p>1. Article Addressed to: <u>Timothy Paul & Tammy Casto Harpold</u> <u>109 Meadowview Dr.</u> <u>Ripley, WV 25271</u></p> <p>Barcode: 9590 9402 7630 2122 5683 61</p>	<p>3. Service Type</p> <table><tr><td><input type="checkbox"/> Adult Signature</td><td><input type="checkbox"/> Priority Mail Express®</td></tr><tr><td><input type="checkbox"/> Adult Signature Restricted Delivery</td><td><input type="checkbox"/> Registered Mail™</td></tr><tr><td><input type="checkbox"/> Certified Mail®</td><td><input type="checkbox"/> Registered Mail Restricted Delivery</td></tr><tr><td><input type="checkbox"/> Certified Mail Restricted Delivery</td><td><input type="checkbox"/> Signature Confirmation</td></tr><tr><td><input type="checkbox"/> Collect on Delivery</td><td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td></tr><tr><td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td><td></td></tr><tr><td><input type="checkbox"/> Insured Mail</td><td></td></tr></table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Collect on Delivery Restricted Delivery		<input type="checkbox"/> Insured Mail	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®														
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™														
<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery														
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation														
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery														
<input type="checkbox"/> Collect on Delivery Restricted Delivery															
<input type="checkbox"/> Insured Mail															
<p>2. Article Number (Transfer from service label) 7022 2410 0002 6396 3218</p>	<p>12/05/2025</p>														

PS Form 3811 July 2020 PSN 7520-02-000-9052

WW-4B

API No. 47-035-02408

Farm Name

Well No. Ripley 12409

Coal not operated

INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____/ owner ____/ lessee ____/ of the coal under this well location has examined this proposed plugging work order. 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.

Date: _____

By: _____

Its _____

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

12/05/2025

WW-9
(5/16)

API Number 47 - 035 - 02408
Operator's Well No. - Ripley 7297

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

Operator Name Columbia Gas Transmission OP Code 307032
Watershed (HUC 10) Sycamore Creek Quadrangle Ripley, 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: fresh water, brine, cement returns, bentonite gel

Will a synthetic liner be used in the pit? Yes ☒ No ☐ If so, what ml.? 20

Proposed Disposal Method For Treated Pit Wastes:

- ☐ Land Application (if selected provide a completed form WW-9-GPP)
☒ Underground Injection (UIC Permit Number 34-167-23862)
☐ Reuse (at API Number _____)
☐ Off Site Disposal (Supply form WW-9 for disposal location)
☒ Other (Explain Mud Master 64054; Reserve Environmental Services (WMGR 123SW008)
Appalachian Water Services (WMGR 123SW001)

Will closed loop system be used? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

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

Additives to be used in drilling medium? N/A

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) Subsoils

-Landfill or offsite name/permit number?

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.

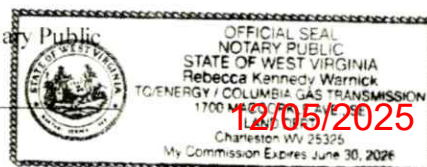
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 - Well Engineering and Technology

Subscribed and sworn before me this 14th day of October, 2025

My commission expires 6/30/26

Notary Public



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

For wetland areas: Annual Rye (40 lbs/acre) until indigenous plants re-establish cover.

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

Title: 006 InspectorDate: 10-10-25

Field Reviewed? () Yes

(☒) No

FIELD WELL
OCCUPY OF OIL AND GAS
OCT 28 2025
THE DEPARTMENT OF
NATURAL RESOURCES

12/05/2025

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): Sycamore Creek

Quad: Ripley, 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. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment.
- Accidental release from well fluids and spills from construction equipment are the only sources of contaminants to groundwater.
- All 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. 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.

Sycamore Creek is at a distance of 0.45 miles NW. Sandy Creek is at a distance of 0.18 miles E.

The WV Baptist Conference Center WV9918034 is the closest Well Head Protection Area at a distance of 4.32 miles SW from discharge area.

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

N/A

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OCT 28 2025
WV Department of
Environmental Protection
JST

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

12/05/2025

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 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. Small quantities of fuel, oil, and lubricants will be stored on site, but located within secondary containment. Accidental release from well fluids and spills from construction equipment are the only sources of contaminants to groundwater.

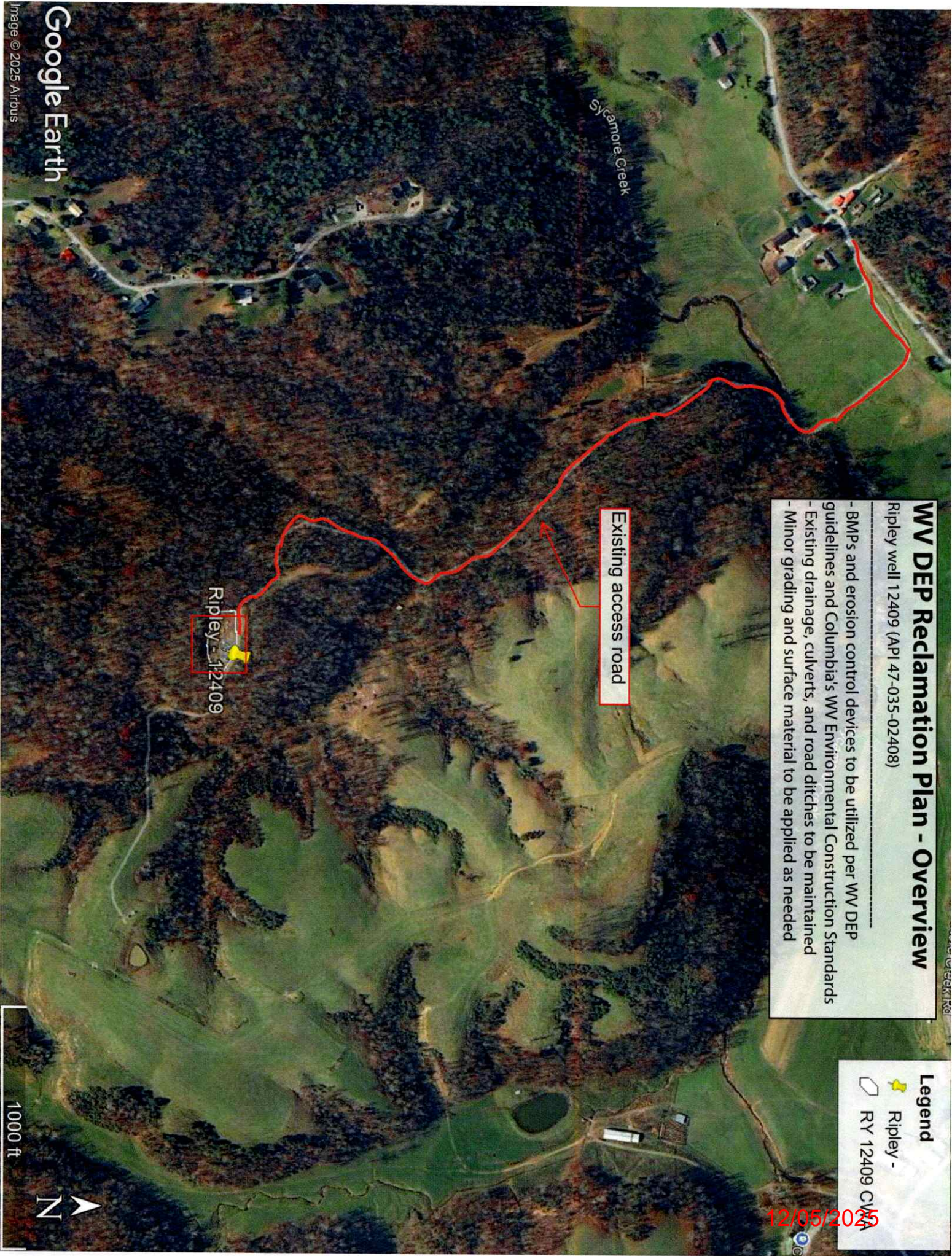
All construction and well servicing equipment will be monitored and inspected daily for leaks or spills.

Signature: Maurice

Date: 10/14/25

501

12/05/2025



12/05/2025

[Handwritten signature]

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WV DEP Reclamation Plan - Site Detail

Ripley well 12409 (API 47-035-02408)

- 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



Existing access road

~0.55 acre

Limit of Proposed Disturbance on existing well site

Ripley - 12409

Legend

-  Ripley -
-  RY 12409 CWA

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OCT 28 2025

Google Earth

Image © 2025 Airbus

200 ft



(RAVENSWOOD)

my**topo**

RIPLEY QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

(LIVERPOOL)



(SANDYVILLE)

081° 39' 42.2894" W

038° 50' 44.7798" N

(COTTAGEVILLE)

(GAY)

(ELMWOOD)

(KENTUCK)

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 9M N and 13M E

★

SCALE 1:24000

Printed: Wed Jun 19, 2024

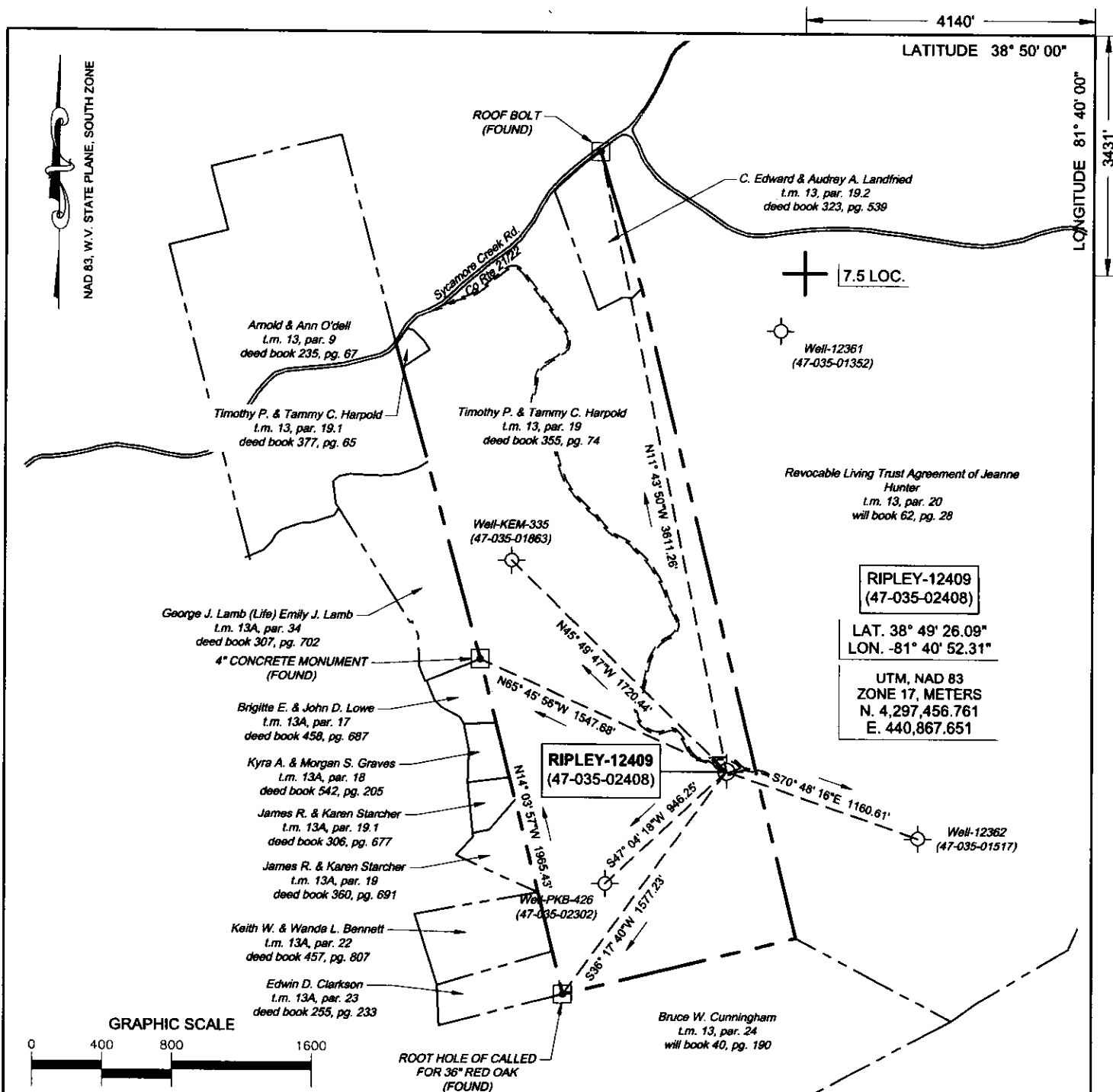
081° 39' 42.2894" W

38081-G5-TM-024
RIPLEY, WV
JAN 1, 1975

12/05/2025

GN 0.43° W
MN 7.80° W

CONTOUR INTERVAL 20 FT



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

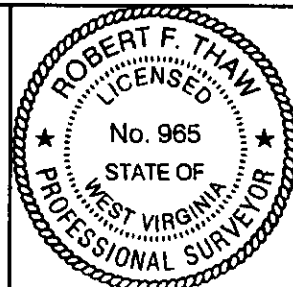
FILE No 2501-3079-001-001
DRAWING No. RIPLEY-12409
SCALE 1"=800'
MINIMUM DEGREE OF
ACCURACY 1:200
PROVEN SOURCE OF
ELEVATION TRIMBLE R10
GPS UNIT

I THE UNDERSIGNED, HEREBY CERTIFY THAT
THIS PLAT IS CORRECT TO THE BEST OF MY
KNOWLEDGE AND BELIEF AND SHOWS ALL THE
INFORMATION REQUIRED BY LAW AND THE 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 AUGUST 21 2025
OPERATOR'S WELL No. 12409
API WELL No.

WELL TYPE: OIL ☐ GAS ☒ LIQUID INJECTION ☐ WASTE DISPOSAL ☐
(IF "GAS") PRODUCTION ☐ STORAGE ☒ DEEP ☒ SHALLOW ☐
LOCATION: ELEVATION 733.26 WATER SHED SYCAMORE CREEK
DISTRICT RIPLEY COUNTY JACKSON
QUADRANGLE RIPLEY, WV

SURFACE OWNER TIMOTHY P. & TAMMY C. HARPOLD ACREAGE 136.06
OIL & GAS ROYALTY OWNER MARY STRALEY, PAUL W. & EVA STRALEY, Et. Al.

LEASE ACREAGE 141.44 LEASE NO. 51820

PROPOSED WORK: DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE ☐
STIMULATE ☐ PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 12/05/2025
PLUG AND ABANDON ☒ CLEAN OUT AND REPLUG ☐

TARGET FORMATION ORISKANY ESTIMATED DEPTH 5052

WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC
ADDRESS PO BOX 1273, CHARLESTON, WV
25325-1273

DESIGNATED AGENT MARIA MEDVEDEVA
ADDRESS 1700 MACCORKLE AVE., S.E.
CHARLESTON, WV 25314



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

plugging permit issued 4703502408

1 message

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

Wed, Dec 3, 2025 at 12:54 PM

To: Maria Medvedeva <maria_medvedeva@tcenergy.com>, Joseph D Taylor <joseph.d.taylor@wv.gov>, Brian Thomas <btkthomas@jacksoncountywv.com>, Alana C Hartman <alana.c.hartman@wv.gov>

To whom it may concern, a plugging permit has been issued for 4703502408.

--

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

 **4703502408.pdf**
4726K

12/05/2025