



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

Thursday, September 26, 2024
WELL WORK PLUGGING PERMIT
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for 7423
47-077-00115-00-00

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.

James A. Martin
Chief

Operator's Well Number: 7423
Farm Name: COLE, B.
U.S. WELL NUMBER: 47-077-00115-00-00
Vertical Plugging
Date Issued: 9/26/2024

Promoting a healthy environment.

09/27/2024

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. 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.

09/27/2024

1) Date 08/20, 2024
2) Operator's
Well No. Terra Alta 7423
3) API Well No. 47-077 - 00115

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 2182.9 Watershed Saltlick Creek
District Portland County Preston Quadrangle Terra Alta, 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 Name Gayne Knitowski 9) Plugging Contractor Name Next Lvl Energy, LLC
Address PO Box 108 Address 736 W Ingomar Rd, Units 268
Gorman, WV 26720 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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Office Of Oil and Gas

SEP 11 2024

WV Department of
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 Gayne Knitowski Date 9/3/2024

09/27/2024

WELL JOB PLAN		STS Well Engineering & Technology		PAGE 1		DATE JOB PREPARED: 4/22/2024				
Objective: Plug and Abandon				WORK TYPE:						
TITLE: Plug and Abandon				LEASE #: 90332						
FIELD: Terra Alta		WELL ID: 7423		API: 47-077-00115						
STATE: WV		SHL (Lat/ Long): 39.406425		-79.580132		CNTY: Preston				
DIST/TWP: Portland		BHL (Lat/Long): 39.406425		-79.580132		WELLLINE #: X76W7423				
EXISTING TUBULAR CONFIGURATION	OD (inches)	WEIGHT (PPF)	GRADE	THREAD	DEPTH (ft)		FORMATION	NOTES	TOP (ft)	BOTTOM (ft)
					TOP	BOTTOM				
Conductor	13 3/8	48.0	H-40		0	26	Onondaga		4875	4892
Surface	9 5/8	32.0	H-40		0	1418	Chert	Storage	4892	5023
Intermediate							Shale		5023	5035
Production	7	23.0	J-55		0	4897	Oriskany	Storage	5035	5162
Stage Tool	7				3900	3904	Helderberg		5207	
Tubing	2 3/8	4.6	J-55		0	4898	TD		5252	5252
6-1/4" openhole below 7" casing										
Perforations										
Wellhead API 3k, 7" flowstring x 9-5/8" support, 2-3/8" 8 rd wellhead connection										
CEMENT INFO						Calc TOC (ft)		ELEVATIONS (ft)		
13 3/8	Cmt'd with 25 sx regular.					0		KB-GL:		
9 5/8	Cmt'd primary with 220 cu ft LitePoz + 220 sx Class A + 50 sx neat					291		KB-RF:		
7	Two stage cement - stage 1 cmt'd with 100 cu ft LitePoz + 100 sx Class A + 170 gals Cealment latex cement - stage 2 cmt'd with 450 cu ft LitePoz + 450 sx Class A + 20 sx neat. Cement top not obvious on CBL - best guess at 1970 ft. Per well record, cemented to surface					~ 1970		GL: 2470		
MISC INFORMATION						DIRECTIONAL WELL PROFILE (as applicable)				
REFER TO WELL SUMMARY RPT, WBD for Wellbore Schematic, ELOG, etc tabs in this workbook for additional information						Vertical well				
Kill Fluid Calculation <small>* Note that kill fluid calculation tabs are hidden</small>										
Maximum calculated bottom-hole pressure (reference only):						2694		psig * input		
Maximum storage field surface pressure (MAOP):						2350		psig * input		
Well TD:						5252		ft TVD * input		
Top of storage zone:						4892		ft TVD * input		
Calculated maximum BH pressure at top of zone:						2673		psig * output Kill Fluid (TOZ)		
Kill fluid density at top of zone @: 150 psi OB						11.10		ppg * output Kill Fluid (TOZ)		
Proposed depth of BP:						4800		ft TVD * input		
Calculated maximum BH pressure at depth of BP:						2668		psig * output Kill Fluid (BP)		
Kill fluid density at depth of BP @: 150 psi OB						11.29		ppg * output Kill Fluid (BP)		
Required minimum kill fluid density:						11.3		ppg * greater of the two		
Current AOF:						2,938		MCF/D		
Top historical AOF:						2,938		MCF/D		
Last MVRT:						None available				
SBT:						09/13/1991 SLB CBL top not obvious - best guess at 1970 ft. Per well record, cemented to surface via stage tool set at 3900'				
PROPOSED YEAR: 2025		ERCB PERMIT REQD: YES ___ NO <u>X</u> ___		(Internal) PDS Required: YES ___ NO ___						
PREPARED BY: Maria Medvedeva		DT. APPLIED: ISSUED:		APPROVED: Brent Criser						
PREP DATE: 4/22/2024		REVIEWED BY: James Amos		<i>Mayra J K... 9/3/2024</i>						

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4707700115P

Objective: Plug and Abandon		WORK TYPE:	
TITLE: Plug and Abandon			
FIELD: Terra Alta	WELL: 7423		
STAT: WV	SHL (Lat/Long): 39.406425 -79.580132	API: 47-077-00115	
TWP: Portland	BHL (Lat/Long): 39.406425 -79.580132	CNTY: Preston	

PROCEDURE

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.

- 1 Obtain State well work permit, EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
- 2 Notify landowner.
- 3 Obtain General Work Permit and Wellsite Review & Turnover Form from Operations.
- 4 Notify Reservoir Engineering & Geosciences (REG) of intent to take well out of service.
- 5 Notify environmental inspector prior to beginning work. If required, notify State/Federal regulatory agencies prior to beginning work.
- 6 Disconnect well line.
- 7 Prepare access road and well site. Install ECD's per EM&CP.
- 8 Service all wellhead valves.
- 9 Document and report to WE&T the initial casing and annular pressures.
- 10 Blow down all annuli, replace fittings as needed, and leave annuli open to atmosphere for monitoring.
- 11 Load / top 7" x 9-5/8" annuli with kill fluid. Document volumes. Top off remaining annuli with FW if able. Document volumes.
- 12 Kill well with 11.3ppg viscosified 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 to verify that the 2-3/8" tubing is free, remove hanger. Wash to TD.
- 20 If able to wash to TD, install balanced cement plug from TD to 4800'
- 21 If not able to wash to TD, 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 4850' then spot a second balanced cement plug.
- 24 Install a CIBP as close to above the cement top as feasible.
- 25 Top off 7" with kill fluid and perform 500 psig pressure test to verify integrity of BP.
- 26 Obtain CBL from CIBP to surface. Keep hole full. Provide digital copy to WET engineer.
Consult with WE&T engineer on results. Historic CBL does not have an obvious cement top, but TOC may be ~1970'. Historic records indicate casing was 2 stage cemented to surface via stage tool at 3900'.
- 27 TIH with work string and install balanced cement plugs from last cement plug to TOC behind 7" casing.
- 28 ND BOPE and remove A-section.
- 29 Weld pulling nipple on 7" casing and dress top of 9-5/8" to accommodate BOPE.
- 30 Strip 13" 3M BOPE (blind + pipe + annular) over stub and NU to 9-5/8" csg. Will need kill/choke outlets below blind rams.
- 31 Function test and attempt to pressure test low (250 psig) and high (2500 psig).
- 32 Wireline freepoint and cut / pull all 7" casing that is free.
- 33 TIH with work string and install balanced cement plugs from last cement plug to 1450'.
- 34 POOH to above cement, reverse circulate to clean tubulars, pull 5 joints, close pipe rams, and WOC a minimum of 4 hrs.
- 35 RIH and tag cement. If top of plug is below 1600' then install second cement plug
- 36 Obtain CBL on the 9-5/8" casing to surface. Keep hole full. Provide digital copy to WET engineer.
Consult with WE&T engineer on results. Historic records indicate casing was cemented to surface, however volumetrically TOC may be at 291'.
- 37 TIH with work string and install balanced cement plug from top of last cement plug to surface.
- 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.

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WV Department of
Environmental Protection

PREPARED BY: Maria Medvedeva	REVIEWED BY: James Amos	APPROVED: Brent Criser
PREP DATE: 4/22/2024		<i>[Signature]</i> 9/3/2024

09/27/2024

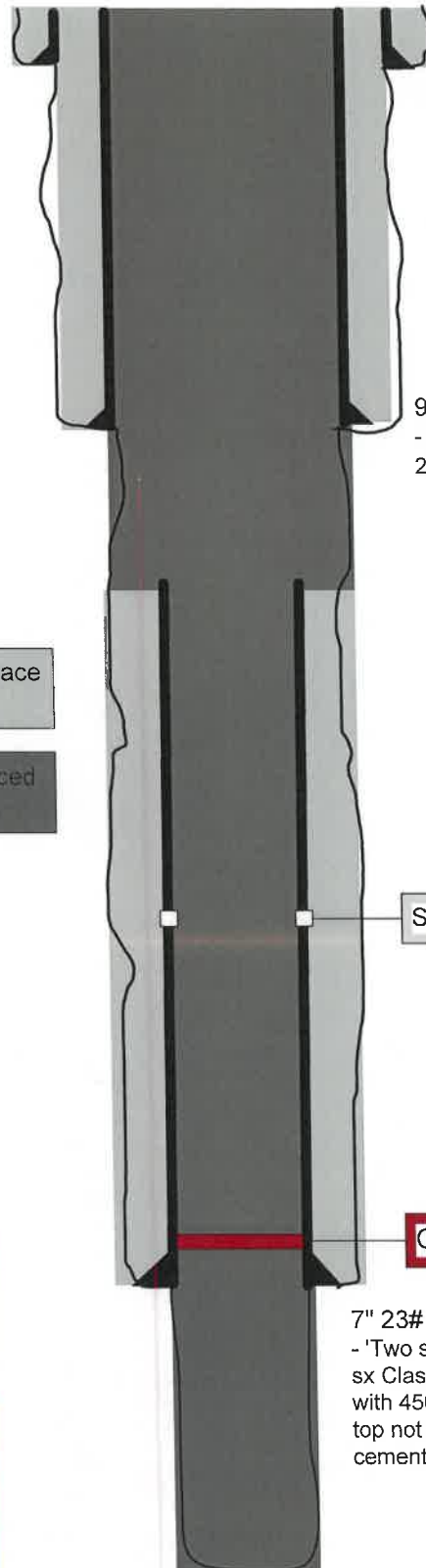
~ not to scale ~

TERRA ALTA 7423

Proposed P&A

(as of 04/15/24)

Sea Level @ 2470 ft



13-3/8" 48# H-40 csg @ 26'
- Cemented to surface with 25 sx

9-5/8" 32# H-40 csg @ 1417'
- Cemented to surface with 220 cu ft LitPoz +
220 sx Class A + 50 sx neat

Light grey fill indicates cement in place during well construction.

Dark grey fill indicates cement placed during plug and abandonment.

Stage Cementing Tool @ 3900 - 3904'

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CIBP ~4800'

7" 23# J-55 csg from 0 - 4897'
- 'Two stage cement - stage 1 cmt'd with 100 cu ft LitePoz + 100 sx Class A + 170 gals Cealment latex cement - stage 2 cmt'd with 450 cu ft LitePoz + 450 sx Class A + 20 sx neat. Cement top not obvious on CBL - best guess at 1970 ft. Per well record, cemented to surface.

Tully Lime 4385 - 4422'

Onondaga Lime 4875 - 4892'

Chert 4892 - 5023'

Shale 5023 - 5035'

Oriskany 5035 - 5162'

Helderberg Lime 5162 - 5173'

Oriskany 5173 - 5207'

Helderberg Lime 5207 - 5252'

6-1/4" Openhole
TD 5252'

09/27/2024

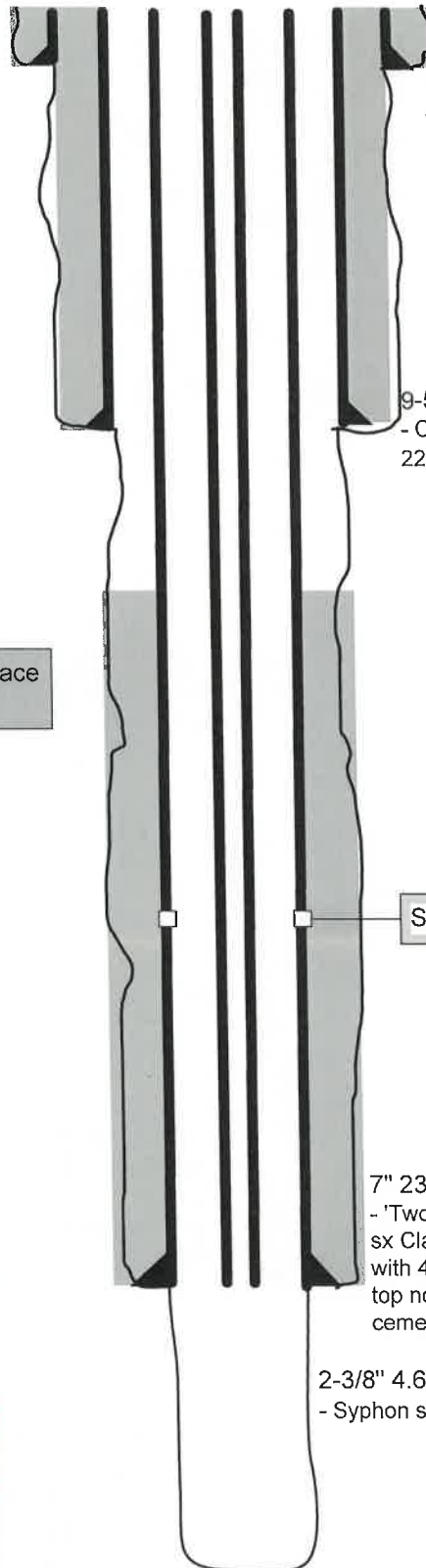
~ not to scale ~

TERRA ALTA 7423

Prior to P&A

(as of 04/15/24)

Sea Level @ 2470 ft



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Tully Lime 4385 - 4422'

Onondaga Lime 4875 - 4892'

Chert 4892 - 5023'

Shale 5023 - 5035'

Oriskany 5035 - 5162'

Heiderberg Lime 5162 - 5173'

Oriskany 5173 - 5207'

Heiderberg Lime 5207 - 5252'

7" 23# J-55 csg from 0 - 4897'
- Two stage cement - stage 1 cmt'd with 100 cu ft LitePoz + 100 sx Class A + 170 gals Cealment latex cement - stage 2 cmt'd with 450 cu ft LitePoz + 450 sx Class A + 20 sx neat. Cement top not obvious on CBL - best guess at 1970 ft. Per well record, cemented to surface

2-3/8" 4.6# J-55 csg @ 4898
- Syphon string

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WV Department of
Environmental Protection

6-1/4" Openhole
TD 5252'

09/27/2024

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
Terra Alta 7423

3) API Well No.: 47 - 077 - 00115

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

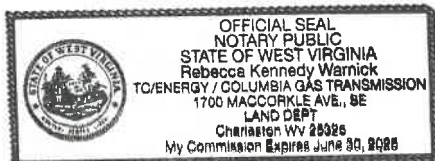
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name Carolyn Dewitt	Name Not operated
Address 115 Selmont Dr	Address _____
Kingwood, WV 26537-1703	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector	(c) Coal Lessee with Declaration
Address	Name _____
_____	Address _____
Telephone	_____

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

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Office Of Oil and Gas

SEP 11 2024

Subscribed and sworn before me this 26th day of August 2024
 My Commission Expires 6/30/26
 Notary Public

WV Department of Environmental Protection

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 depprivacyoffier@wv.gov.

09/27/2024

4707700115P

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



August 26, 2024

Carolyn Dewitt
115 Selmont Dr
Kingwood, WV 26537-1703

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 Terra Alta 7423 (API 47-077-00115).

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

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SEP 11 2024
WV Department of
Environmental Protection

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

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

Kingwood, WV 26537

OFFICIAL USE

Certified Mail Fee	\$4.85
Extra Services & Fees (check box, add fee as appropriate)	\$6.10
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$9.85
Total Postage and Fees	\$18.80

Sent To: Carolyn Dewitt
Street and Apt. No., or PO Box No.
City, State, ZIP+4®: TA 7423

Postmark: AUG 27 2024
KANSAS CITY, MO 64108

7022 2410 0002 6396 3164

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 <i>Carolyn Dewitt</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to: Carolyn Dewitt 115 Selmont Dr Kingwood, WV 26537</p>		<p>B. Received by (Printed Name) <i>Carolyn Dewitt</i></p> <p>C. Date of Delivery</p>	
<p>2. Article Number (Transfer from service label) 7022 2410 0002 6396 3164</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>3. Service Type</p> <p><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"/> Mail Restricted Delivery (0)</p>		<p>9590 9402 7630 2122 5683 16</p>	

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

www.tcenergy.com

09/27/2024

SURFACE OWNER WAIVER

4707700115P

Operator's Well
Number

Terra Alta 7324

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

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Office Of Oil and Gas

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.

SEP 11 2024
WV Department of
Environmental Protection

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

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

09/27/2024

WW-4B

4707700115P

API No. 47-077-00115

Farm Name _____

Well No. Terra Alta 7423

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

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09/27/2024

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) Saltlick Creek Quadrangle Terra Alta, 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

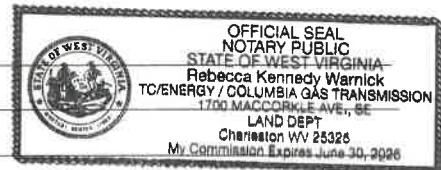
-Landfill or offsite name/permit number? _____

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 WASTE 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 permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]
Company Official (Typed Name) Marla Medvedeva
Company Official Title Senior Wells Engineer - Well Engineering and Technology



Subscribed and sworn before me this 26th day of August, 20 24

[Signature] Notary Public

My commission expires 6/30/26

09/27/2024

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

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

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Rye	40	Orchard Grass and/or Tall Fescue	29
		Birdsfoot trefoil (empire)	9
		Annual Rye	12

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: *Haynes K. K...*

Comments:

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Environmental Protection

Title: *Inspection* Date: *9/3/2024*

Field Reviewed? () Yes () No

09/27/2024

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

Operator Name: Columbia Gas Transmission LLC
Watershed (HUC 10): Saltlick Creek Quad: Terra Alta, 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.

Saltlick Creek is at a distance of 0.37 miles W.
The Terra Alta Water Works (WV3303917) is the closest Well Head Protection Area at a distance of 3.1 miles NE from discharge area.

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

N/A

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Environmental Protection

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

09/27/2024

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.

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: [Handwritten Signature]
Date: 08/26/24

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09/27/2024

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

September 10, 2024

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

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

Terra Alta 7423 (API 47-077-00115)

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

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www.tcenergy.com

09/27/2024

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8/27/24, 3:29 PM

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

Ripley	7297	47-035-00495-0000	Plug and Abandon well and line	\$	100.00
Terra Alta	7423	47-077-00115-0000	Plug and Abandon well and line	\$	100.00
Terra Alta South	7526	47-077-00146-0000	Plug and Abandon well	\$	100.00
Terra Alta South	7527	47-077-00155-0000	Plug and Abandon well and line	\$	100.00
Terra Alta South	7536	47-077-00156-0000	Plug and Abandon well and line	\$	100.00

Company – TC Energy (Legacy - Columbia Gas Transmission)

Designated Agent – Maria Medvedeva

Billing Address – 1700 MacCorkle Ave SE; Charleston WV 25314

Contact number – 304-410-4313

Contact email – maria_medvedeva@tcenergy.com

Thank you very much for your help.

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

4707700115P

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

SALE

MID: 5993
TID: 00E30710 REF#: 00000005
Bank ID: 000000
Batch #: 1014 RRN: 241836530169
08/28/24 08:22:49
AVS: 7 CVC: N
Invoice #: 712

APPR CODE: 08541S
VISA Manual CP
*****4694 **/**

AMOUNT \$100.00

APPROVED

SIGNATURE NOT REQUIRED

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

Thank You
Please Come Again

MERCHANT COPY

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

SALE

MID: 5993
TID: 00E30710 REF#: 00000006
Bank ID: 000000
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AVS: 7 CVC: N
Invoice #: 712

APPR CODE: 00215S
VISA Manual CP
*****4694 **/**

AMOUNT \$100.00

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

SALE

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AVS: 7 CVC: N
Invoice #: 712

APPR CODE: 02598S
VISA Manual CP
*****4694 **/**

AMOUNT \$100.00

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

SALE

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AVS: 7 CVC: N
Invoice #: 712

APPR CODE: 08530S
VISA Manual CP
*****4694 **/**

AMOUNT \$100.00

APPROVED

SIGNATURE NOT REQUIRED

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Thank You
Please Come Again

MERCHANT COPY

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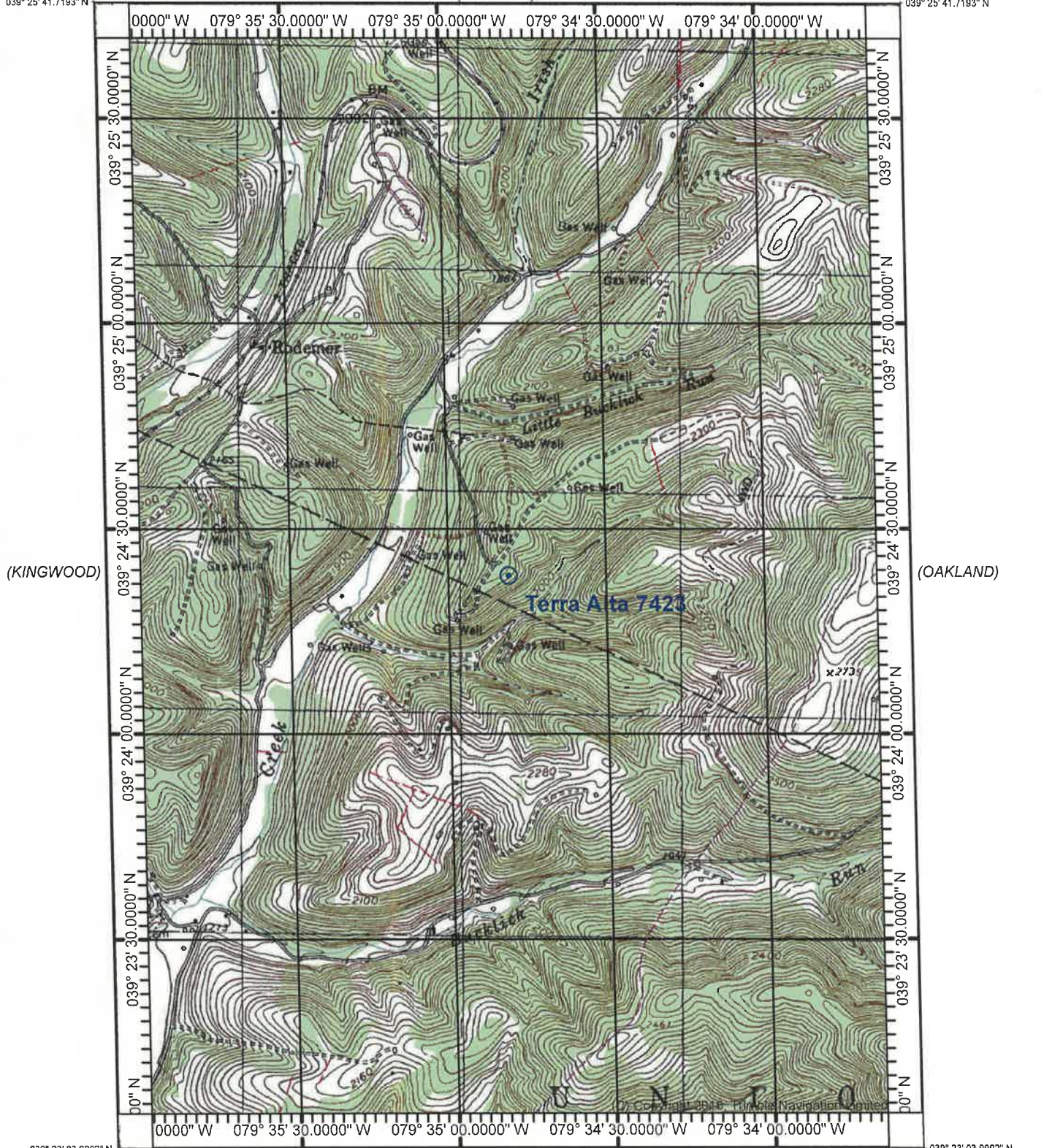
4707700115P

(VALLEY POINT) mytopo
079° 35' 58.3877" W
039° 25' 41.7193" N

TERRA ALTA QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES (SANG RUN)

(CUZZART)

079° 33' 38.0368" W
039° 25' 41.7193" N



(ROWLESBURG)
039° 23' 03.9902" N
079° 35' 58.3877" W

(AURORA)
SCALE 1:24000

Printed: Tue Jun 16, 2024
039° 23' 03.9902" N
079° 33' 38.0368" W
(TABLE ROCK)

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

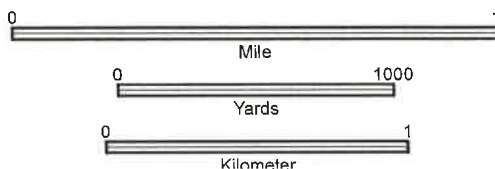
North American 1983 Datum (NAD83)

To place on the predicted North American
1927 move the projection lines 11M N and
19M E

Declination



GN 0.90° E
MN 9.29° W



CONTOUR INTERVAL 20 FT

39079-D4-TM-024
TERRA ALTA, WV
JAN 1, 2000

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WV DEP Reclamation Plan - Site Detail

Terra Alta well 7423 (API 47-077-00115)

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

Legend

- TA 7423 CWA
- Terra Alta - 07423

Existing access road

Limit of Proposed Disturbance on existing well site

~0.4 acre

Pit A
50' x 10' x 4' deep

Pit B
50' x 10' x 4' deep

Terra Alta - 07423

200 ft

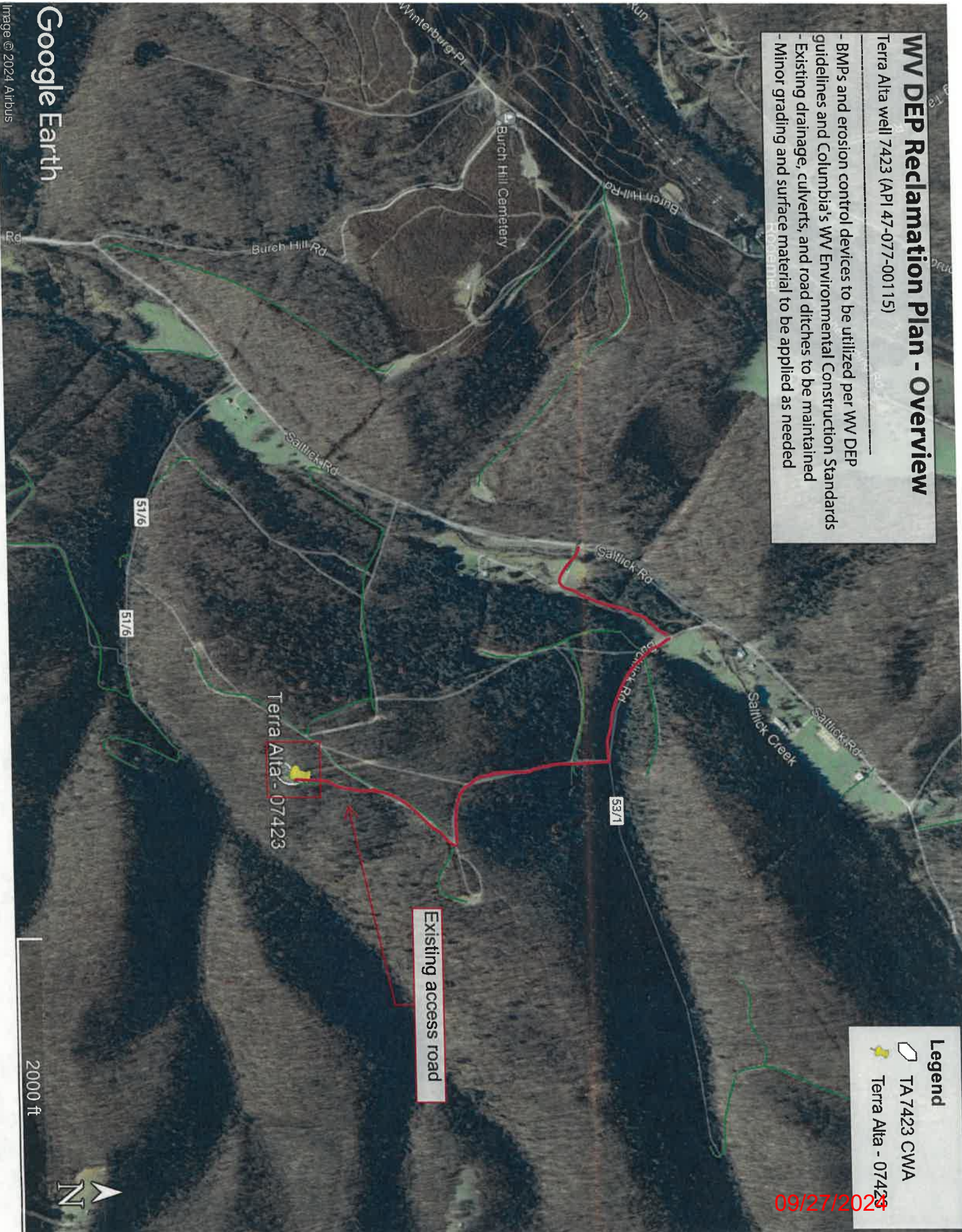


09/27/2023

WV DEP Reclamation Plan - Overview

Terra Alta well 7423 (API 47-077-00115)

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



Legend

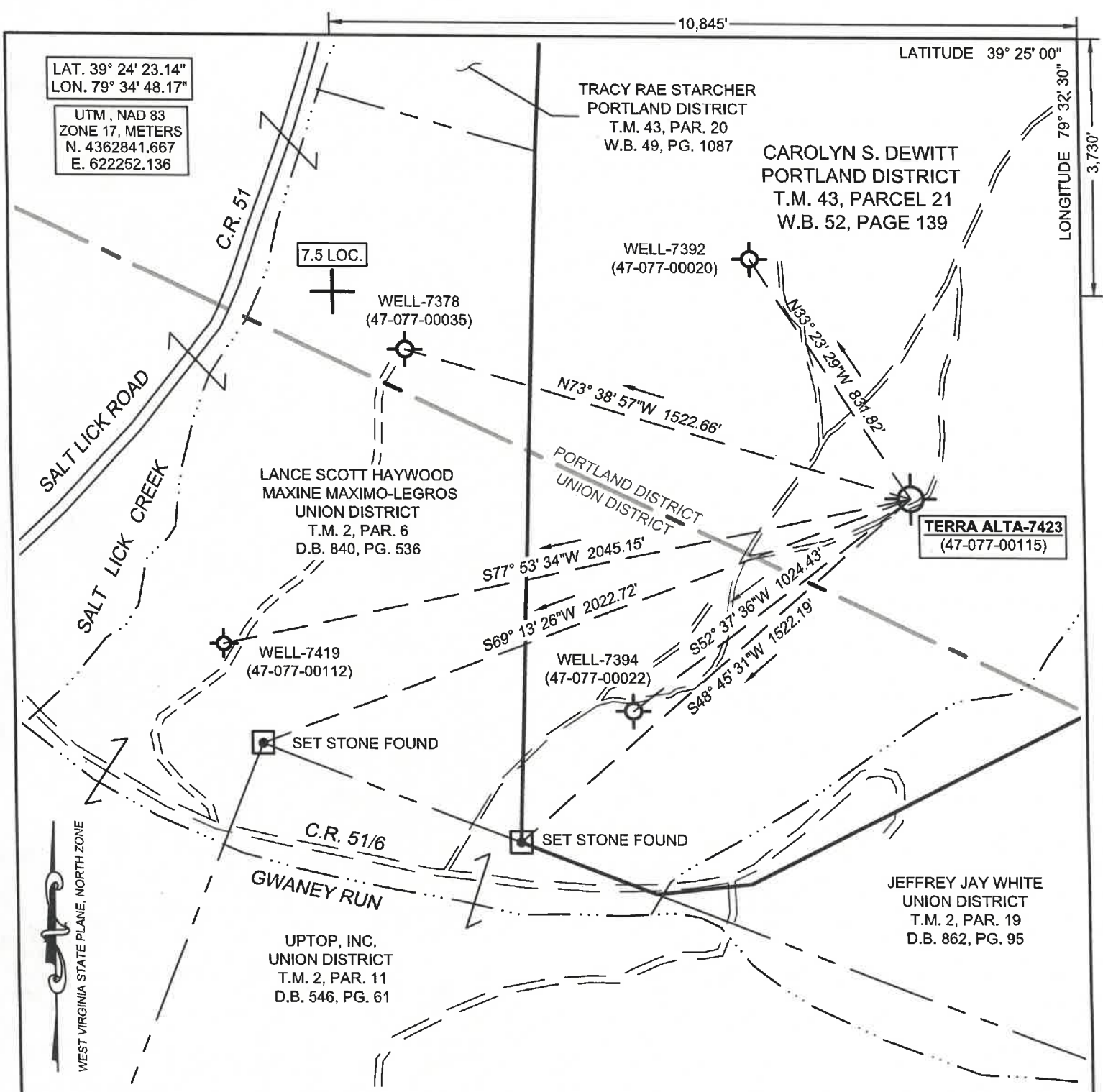
- TA 7423 CWA
- Terra Alta - 07423

09/27/2024

Office Of Oil and Gas

SEP 11 2024

WV Department of Environmental Protection



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

FILE No. **2401-2345-013**
 DWG No. **2401-2345-013**
 SCALE **1"=400'**
 MINIMUM DEGREE OF ACCURACY **1:200**
 PROVEN SOURCE OF ELEVATION **TRIMBLE R12**
 GPS UNIT

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

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



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

NITRO, WV

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE **47** COUNTY **077** PERMIT **00115**
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION **2182.9'** WATER SHED **SALT LICK CREEK**
 DISTRICT **PORTLAND** COUNTY **PRESTON**
 QUADRANGLE **TERRA ALTA, WV**

SURFACE OWNER **CAROLYN S. DEWITT** ACREAGE **219**
 OIL & GAS ROYALTY OWNER **BERNADETTE COLE, ET AL** LEASE ACREAGE **219**
 LEASE No. **1090332-000**

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR **09/27/2024**
 STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION **CHERT AND ORISKANY** ESTIMATED DEPTH **5252**

WELL OPERATOR **COLUMBIA GAS TRANSMISSION, LLC** DESIGNATED AGENT **MARIA MEDVEDEVA**
 ADDRESS **PO BOX 1273, CHARLESTON, WV 25325-1273** ADDRESS **1700 MACCORKLE AVE., S.E. CHARLESTON, WV 25314**

FORM IV-6 (8-78)