

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Friday, April 22, 2022 WELL WORK PLUGGING PERMIT Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC STORAGE TECHNICAL SERVICES - 6TH FLOOR 1700 MACCORKLE AVE. SE. CHARLESTON, WV 25314

Re: Permit approval for 7398 47-077-00030-00-00

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 Chief

Operator's Well Number: 7398 Farm Name: BURROWS, S. E. U.S. WELL NUMBER: 47-077-00030-00-00 Vertical Plugging Date Issued: 4/22/2022

Promoting a healthy environment.

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. <u>Failure to adhere to the specified</u> permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.

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- 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.

WW-4B Rev. 2/01



Spencer, WV 25276

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: Ele	evation 2066.4 ft	Watershed Sallick C	JICCK
		strict Portland	County Preston	Quadrangle Terra Alta
6)	Well Operator	Columbia Gas Transmission LLC	7)Designated Agen	t Maria Medvedeva
	Address	1700 MacCorklle SE	Addres	s 1700 MacCorklle SE
		Charleston, WV 25314		Charleston, WV 25314
8)	Oil and Gas I	ispector to be notified	9)Plugging Contra	
	Name Gayne I	Knitowski	Name Contra	ctor Services Inc
	Address PO	Box 108	Address 929	Charleston Road

Gormania, WV 26720

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.

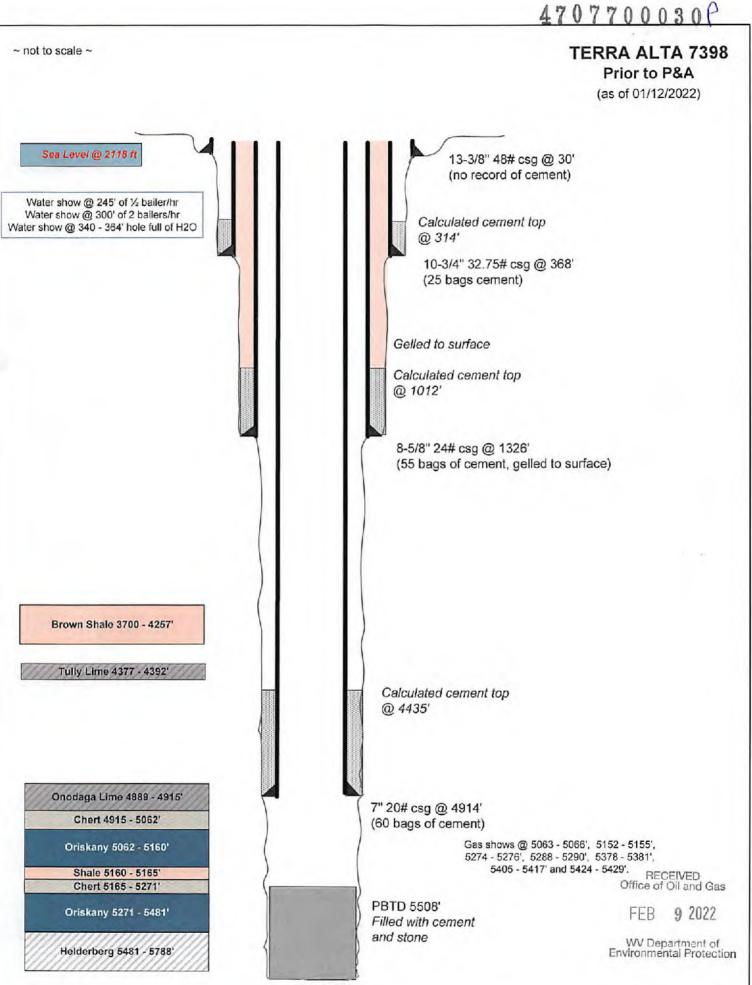
Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector

Date

	DB PLAN	STS Well Engineer	ring & lechnology	PAGE 3	DATE JOB PREPARED: 1/19/20 LAST PROFILE UPDATE:
-	Plug and Abandon			WORK TYPE:	MOD
FIELD:		WELL:	7398 (OB)		
STAT:		SHL (Lat/Long):	39.41639 -79.5769		
TWP:		BHL (Lat/Long):	39.41639 -79.5769	4 CNTY:	Preston
			PROCEDURE (pag	e 1)	
			Li de como olumo ulaid d d	autick All ensears will be 6%	Bentonite gel
	NOTE: All cement us	ed will be Class A, slurry weig	ht 15.6ppg, slurry yield 1.1	s cutusk. All spacers will be u	bendine gen
1	Obtain State well wor	permit, EM&CP, pipeline crossin	no evaluation call before you	dio, etc. Prepare site specific S	PCC.
2	Notify landowner.	permit, Entradir ; pipeline ereben	a craise and the country of the	-3.	
3	Obtain General Work	Permit and Wellsite Review & Tu	mover Form from Operations	5.	
4	Notify Reservoir Engin	neering & Geosciences (REG) of	intent to take well out of serv	ice.	
5	Notify environmental	nspector prior to beginning work.	If required, notify State/Fede	ral regulatory agencies prior to b	eginning work.
6	Prepare access road	and well site. Install ECD's per E	M&CP.		
7	Document and report	to WE&T the initial casing and an	nnular pressures.		
8	Blow down all annuli a	and replace fittings as necessary.	Leave annuli open to atmos	sphere for monitoring.	
9	Run caliper (note from	13.12.2008 - 7" casing is butt we	ided just below pin looking up	b- 6.25" ring will not pass thru we	ld).
10	Load / top 7x8 and 8x	10 annuli with kill fluid. Top off a	Il remaining annuli with FW.	Document volumes.	
11	Kill well with 11.3 ppg	viscosified fluid			
12		ellhead to uncover casing tops ar	nd remove cement if present.		
13				to be the state being the second	
	NU 7-1/16" Cameron	BOPE (blind/shear + pipe + annu	ular). Will need kill/choke out	ets below blind/snear rams.	
15	Function and pressure	e test BOPE to low (250 psig) and	d high (2500 psig).		neullion port Stone
16	Obtain CBL inside 7"	casing from TD to surface - keep	hole tull. Send digital copy of	of CBL to WEAT engineer and co	depth of cement ton behind 7" cso
17	RIH with 2-3/8" work s	string w/ cut-lip shoe, wash to 1D	(PBID~5508), and install I	balanced cement plug nom TD to	depth of cement top behind 7" csg.
18	PU above cement top	, reverse circulate to clean tubula rs. RIH and tag cement. If cemer	ars, pull to joints, close pipe i	ans, and wood balanced out n	dug.
			it top is deeper than 4800 the	en spot a second balanced entre	
20	Install 7" CIDBP abov		last to varify integrity of PR		
21		d and perform 500 psig pressure	test to verify integrity of BP.		
22		d 10x13 annuli with fluid again.	dustable abales		
23		13 annuli to flowback tank with a			
24		e CIBP and attempt to circulate t	o surface of establish hijectic	01.	
24.00	* Consult with WE&T				
25A		e established, consult with WE&T			
		Ill weight fluid until good kill dens liding-sleeve style cement retaine			
		along-sleeve style cement retains er above perfs.	er on work string.		
	> Establish				
		cement behind 7" casing with pre-	-determined cement volume	that occupies no more annular vo	dume than that required to
		of cement at 1500'.			
		from retainer, reverse circulate t	to clean tubulars, and TOH.		
	> WOC 24 h				
	> Obtain CB				
25B	If no circulation to sur	face, but injection established, co	onsult with WE&T engineer for	or procedure:	
	> RIH with s	liding-sleeve style cement retained	er on work string		
	> Set retained	er above perfs.	and the second se		
	> Establish i	njection.			
	> Disengage	from retainer and spot cement a	at bottom of work string.		
		ement behind 7" casing with pre-	-determined cement volume	that occupies no more than annu	lar volume that required to
	place top r	of cement at 1500'.			
		e from retainer, reverse circulate	to clean tubulars, and TOH.		
	> WOC 24 h				
	> Obtain CB		ere and the state of the		
	If circulation/injection	not established; Perforate (per V	VE& I engineer) and repeat p	rocess above.	
25C		teps above cement plugs must b			168.
25C	IL DRECED INSTALL CE	ment plugs across all perf interva	us and spot cement plug to 1		
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250					
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250					
		edvedeva REVIEWED BY:	James Amas	APPROVED:	Brent Crises
25C REPARE	ED BY: Maria M	edvedeva REVIEWED BY:	James Amos		Brent Crises

VELL JOB		STS Well Engineer	ring & Technology	PAGE 4	DATE JOB PREPARED: LAST PROFILE UPDATE:	1/19/2022
	Plug and Abandon			WORK TYPE:		
	Plug and Abandon Terra Alta	WELL:	7398 (OB)			
		SHL (Lat/Long):	39.41639 -79.57			
	Portland	BHL (Lat/Long):	39.41639 -79.57		Preston	
STAT: DIST/TWP: 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	WV Portland Portland Release all annular pressure ND BOPE. Weld puiling nipple on 7" csg NU 11" BOPE (blind ram + p Function and attempt to pres Wireline freepoint and cut / p Obtain CBL inside 8-5/8" csg TIH with work string and inst POOH to above cement, rev RIH and tag cement. If ceme TOOH and ND BOPE and re Weld pulling nipple on 8-5/8" NU 11" spool (with kill/choke Function and attempt to pres Wireline freepoint and cut/p TIH with work string and inst POOH to above cement, rev RIH and tag cement. If ceme TOOH and ND BOP. Obtain CBL Inside 10-3/4" cc	SHL (Lat/Long): BHL (Lat/Long)	39.41639 -79.57/ 39.41639 -79.57/ PROCEDURE (page PROCEDURE (page PROCEDURE (page PROCEDURE (page and high (2500 psig) and high (2500 psig) res. from top of last cement plugulars, close BOP, and WOC (minimum ove top of 10-3/4" csg. 50 psig) and high (500 psig) ree. from top of last cement plugulars, and WOC (minimum ove top of 8-5/8" csg stub f E&T engineer to evalulate a from top of last cement plugulars, close BOP, and WOC if ree. from top of last cement plugulars, close BOP, and WOC free. from top of last cement plugulars, close BOP, and WOC free. from top of last cement plugulars, close BOP, and WOC for the stream of the stream	2) bke outlets below blind/shear. g). Report results to WE&T engine ind confirm next Steps. Ig to depth of cement top behir C (minimum 6 hrs). install second cement plug. OPE. P. Report results to WE&T engine g to 400'. 4 hrs). hen install second cement plug and confirm next Steps. Ig to depth of cement top behir C (minimum 3 hrs).	gineer. nd the 8-5/8" csg. neer.	
PREPARED	BY: Maria Medvede	REVIEWED BY:	James Amos	APPROVED:	Brent Cri	per
PREP DATE	: 1/19/2022			MOK -	1/20/2022	
					1100000	

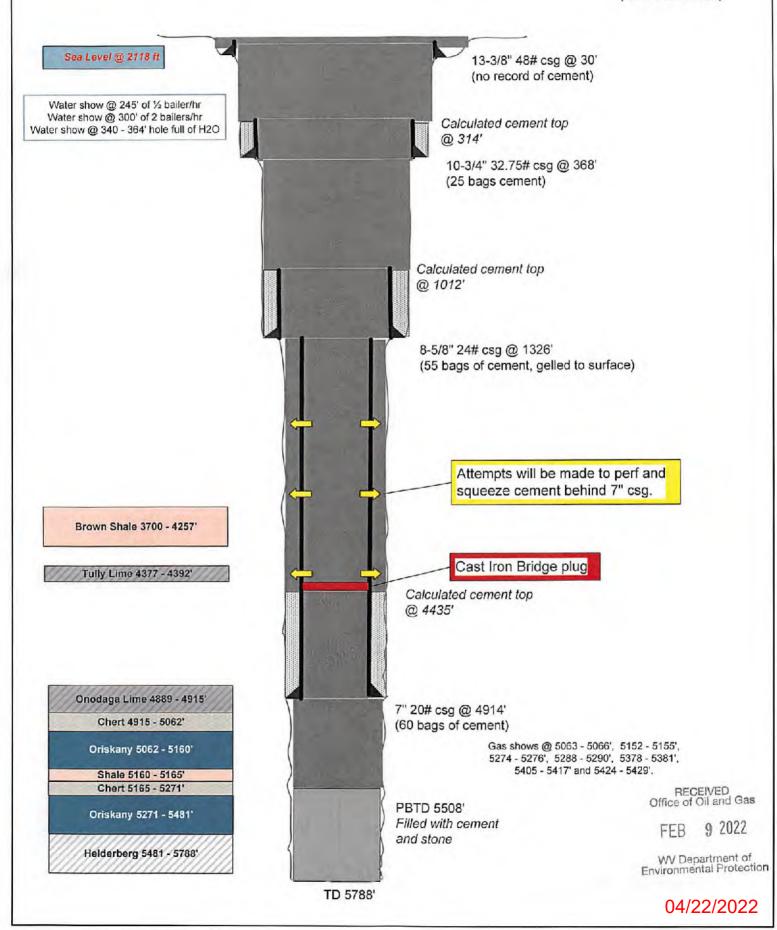


TD 5788'

47077000307

TERRA ALTA 7398 Proposed P&A

(as of 01/13/2022)



~ not to scale ~



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

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WW-4A Revised 6-07

4707700030P

1) Date: 01.13.2022 2) Operator's Well Number Terra Alta 7398

3) API Well No.: 47 - 077 - 00030

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

4) Surface Ow	ner(s) to be served:	5) (a) Coal Operator			
(a) Name	Ralph and Joann Lewis	Name	Not operated		
Address	7582 Salllick Rd	Address			
	Terra Alta, WV 26764				
(b) Name		(b) Coal Own	ner(s) with Declaration		
Address		Name		_	
		Address			
(c) Name		Name			
Address	÷	Address			
nutross				REG Office of	EIVED Oil and Gas
6) Inspector	Gayne Knitowski	(c) Coal Less	see with Declaration		
Address	PO Box 108	Name	and the second se	FEB	9 2022
	Gormania, WV 26720	Address			
Telephone	304.546.8171			WV Dep	partment of ntal Protection
				Livinghine	

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.

3 1	Well Operator By:	Maria Medvedeva)
is w	Its:	Senior Wells Engineer - Well Engineering and Technology	
Stalle 2/11	Address	1700 MacCorkle Ave SE	
y KIN V		Charleston, WV 25314	
Y . U	TT-1	201 110 1010	
R A	Telephone	304-410-4313	
Subscribed and sworn before n My Commission Expires	ne this 212th da	y of Jan Notary Allohic GREGO	RY S LARCH blic Official Sea

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 <u>depprivacyoffier@wv.gov</u>.

() TC Energy

January 20, 2022

Ralph and Joann Lewis 7582 Saltlick Rd Terra Alta, WV 26764

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 7398 (API 47–073) RECEIVED 00030).

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

U.S. Postal Service[™] **CERTIFIED MAIL® RECEIPT** m Regards, Domestic Mail Only 256. For delivery information, visit our Terna Alla 20 Centified Mail Fee \$3.75 0726 = -7 01 ktra Services & F \$U, Ul Return Receipt (hardcopy) E Return Receipt (electronic) \$E Maria Medvedeva Certified Mail Restricted Delivery \$0 00 Adult Signature Required \$0.00 Senior Wells Engineer Adult Signature Restricted Date 202 Postage Well Engineering & Technology \$8.95 Г S Total Postage and Fees \$15.75 01/28/2022 Columbia Gas Transmission, LLC F 2027 21015 Street and Act. No., or 758 City, State, ZIP+4 2676 Terra Alta VIIV COMPLETE THIS SECTION ON DELIVERY SENDER: COMPLETE THIS SECTION A. Signature Complete items 1, 2, and 3. Agent Print your name and address on the reverse х auto Addressee so that we can return the card to you. B. Received by (Printed Name) C. Date of Delivery Attach this card to the back of the mailpiece, e or on the front if space permits. 1. Article Addressed to: D. Is delivery address different from item 1? 1 Yes If YES, enter delivery address below: Ralph and Joann Lewis 7582 Saltlick Rd I No Terra Alta, WV 26764 Service Type El Priority Mail Express® Registered MailTM
 Registered Mail Restricte
 Delivery Adult Signature Adult Signature Restricted Delivery Certified Mail® Signature Confirmation www.tcenergy.com m **Gertified Mail Restricted Deliver** 9590 9402 6856 1104 6302 79 Callect on Delivery Collect on Delivery Restricted Deligra /22/2022 2. Article Number (Transfer from service label) 1ail 1ail Restricted Delivery 7021 1970 0001 1850 2563 PS Form 3811, July 2020 PSN 7530-02-000-9053 **Domestic Return Receipt**

Operator's Well Number

Terra Alta 7398

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 RECEIVED grounds: Office of Oil and Gas

- 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;

Date

 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 protection 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 FOR EXECUTION BY A CORPORATION. ETC.

Signature

Name By

Its

Date

Signature

∩4[₽]₱[₺]9/2022

9 2022 FEB

API No.	47-077-00030	p
APLINO.		

Farm Name _____ Well No. T

Terra Alta 7398 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 then 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: _____

Ву: _____

Its _____

RECEIVED Office of Oil and Gas

FEB 9 2022

WV Department of Environmental Protection

(5/16)	API Number 47 - 077 - 00030 Operator's Well No. Terra Alta 7398	
	Operators well No. Tella Alta 7555	
	STATE OF WEST VIRGINIA MENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS CUTTINGS DISPOSAL & RECLAMATION PLAN	
Operator Name Columbia Gas Transmission	OP Code 307032	
Watershed (HUC 10) Saltlick Creek	Quadrangle Terra Alta	
Do you anticipate using more than 5,000 bbls Will a pit be used? Yes No	of water to complete the proposed well work? Yes No	
If so, please describe anticipated pit	waste: fresh water, brine, cement returns, bentonite gel	
Will a synthetic liner be used in the		
	ted Pit Wastes: Aug WELL EFFLUENT WILL BE IN TAWKS BEFORE DISPOSING OFF- (if selected provide a completed form WW-9-GPP) tion (UIC Permit Number 34-167-23862)	CONTHINE SITE. JANAM
Reuse (at API Nur		
Off Site Disposal Other (Explain_M	(Supply form WW-9 for disposal location) ud Master 64054; Reserve Environmental Services (WMGR 123SW008)	
Ap	ppalachian Water Services (WMGR 123SW001)	
Will closed loop systembe used? If so, desc	ribe: No	
Drilling medium anticipated for this well (ver	tical 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	at medium will be used? (cement, lime, sawdust) Subsoils	
-Landfill or offsite name/permit num	iber?	
A ALL A LOUIS A REAL AND A R	Office of Oil and Cas of any load of drill cuttings or associated waste rejected at any shall be provided within 24 hours of rejection and the permittee shall also disclose	

on April I, 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	RECEIVED Office of Oil and Gas
Company Official (Typed Name) Maria Medvedeva	FEB 9 2022
Company Official Title Senior Wells Engineer - Well Engineering and Technology	WV Department of Environmental Protection
Subscribed and swom before me this 26th day of Jan	. 20 ZZ
My commission expires July 20 2022	AGREGORY S LARCH Notary Public Official Seal State of West Virginia My Comm. Expires Jul 20, 2025 TC ENERGY 1700 Maccorkie Ave. SE Charleston WV 25314

4707700030

Form WW-9

Operator's Well No. Terra Alta 7398

Proposed Revegetation Trea	tment: Acres Disturbed _	<1.0 Preveg etation pH <u>6 - 7</u>	
Lime 2	Tons/acre or to corre	ect to pH 7 - 8	
Fertilizer type 10-	10-10		
Fertilizer amount	500	lbs/acre	
Mulch hay or st	raw @ 2	Tons/acre	
		Seed Mixtures	
Т	emporary	Permanent	
Seed Type	lbs/acre	Seed Type lbs/act	re
Annual Rye	40	Orchard Grass and/or Tall Fescue	29
		Birdsfoot trefoil (empire)	9
······································	<u> </u>	Annual Rye	12
For wetland areas:	Annual Rye (40 lb	os/acre) until indigenous plants re-establis	n 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: Aayne John Ten	
Comments:	
Title: Insperio	Date: 4 20 2022
Field Reviewed? ()Yes ()No

WW-9- GPP Rev. 5/16 Page <u>1</u> of <u>2</u> API Number 47 - 077 - 00030 Operator's Well No. Terra Alta 7398

Ouad: Terra Alta

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

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.

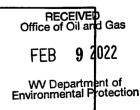
3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Saltlick Creek is at a distance of 0.12 miles NW.

The Terra Alta Water Works (WV3303917) is the closest Well Head Protection Area at a distance of 2.62 miles NE from discharge area.

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

N/A



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

WW-9- GPP Rev. 5/16 Page _____Of ____ API Number 47 - 077 ____00030 ____ Operator's Well No. _Terra Alta 7398

N/A

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

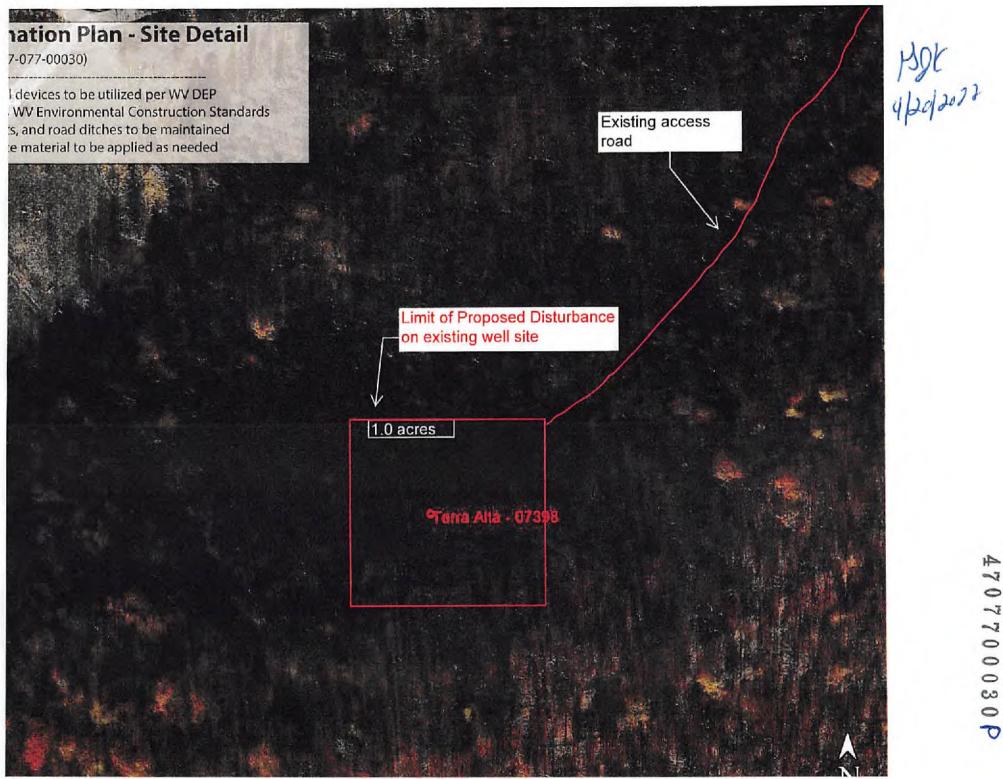
No waste material will be used for deicing or fill material on the property.

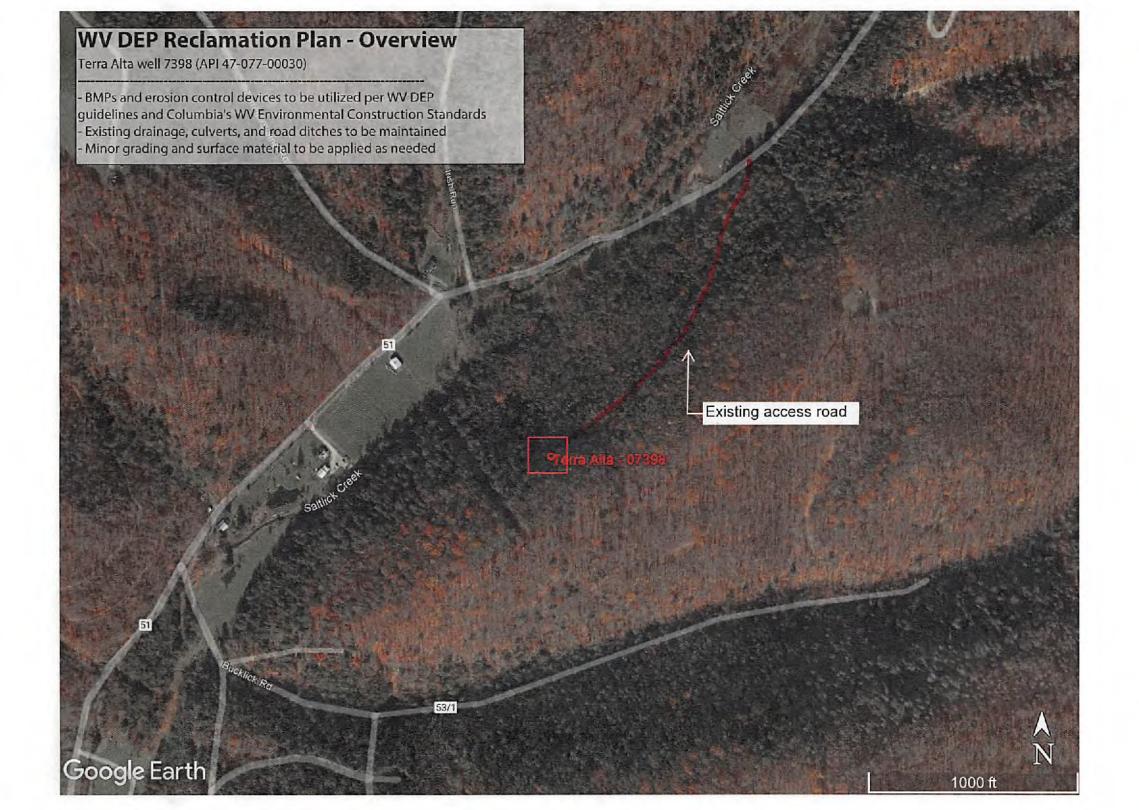
7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

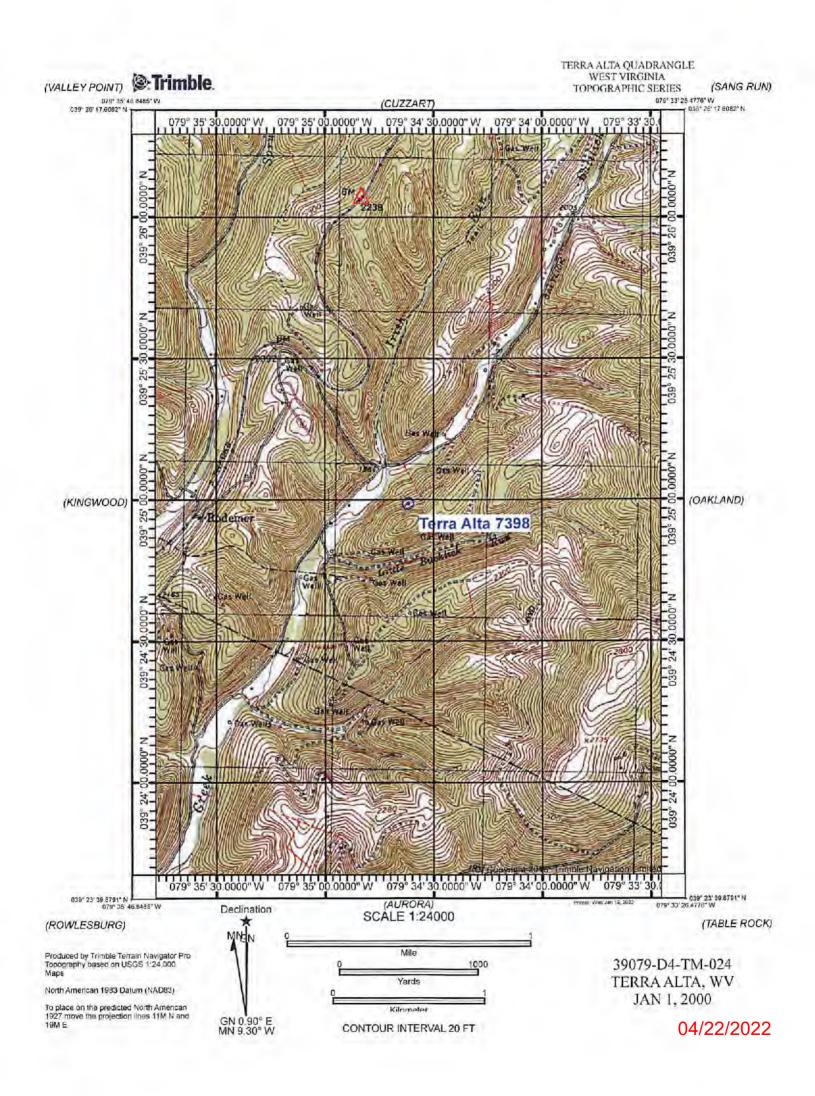
During routine tailgate meetings, groundwater protection will be a topic of discussion.

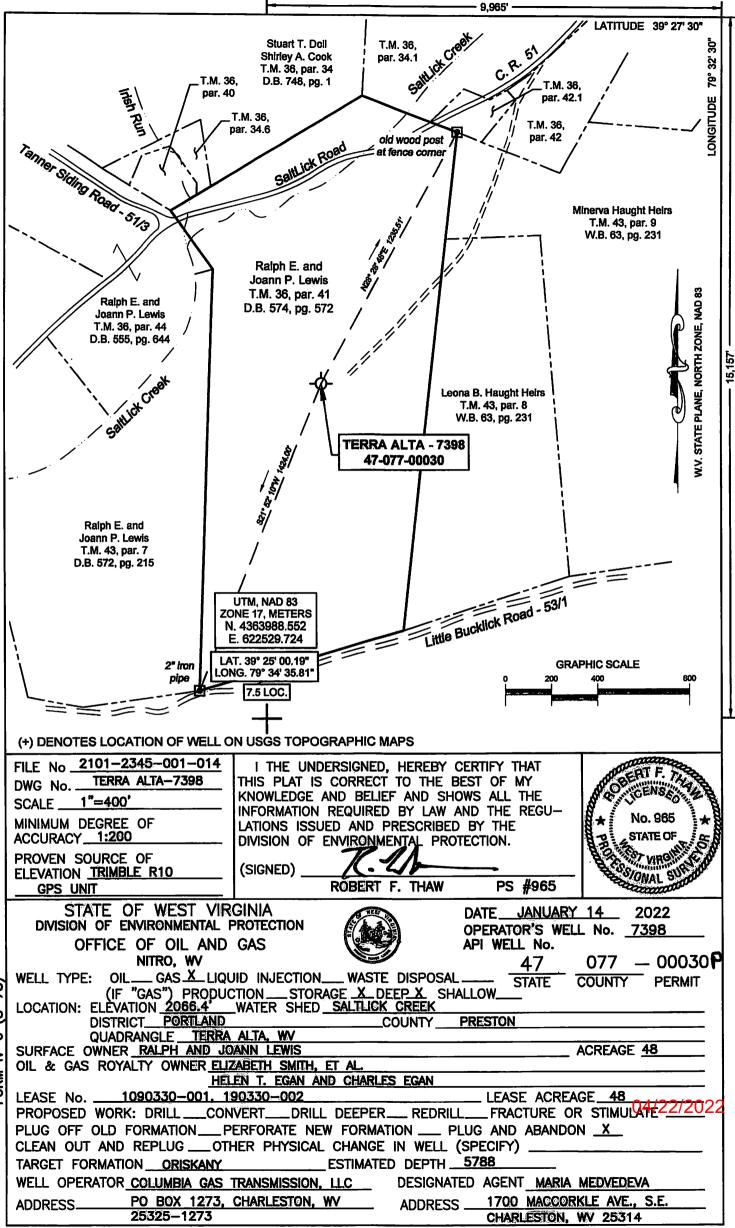
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

No fertilizer will be stored on site. Small quantities of but located within secondary containment. Accidenta construction equipment are the only sources of conta	I release from well fluids and spills from
All construction and well servicing equipment will be spills.	monitored and inspected daily for leaksing of Oi and Gas
Signature:	WV Department of Environmental Protection
Date: 0.13. WUL	









P:2021/2101-2345-001-014 - TC ENERGY - TERRA ALTA - 7398/50-SURVEY/DWG/TERRA-ALTA-7398-WELL PLAT.DWG



Plugging Vertical Well Work Permit (API: 47-077-00030)

1 message

 Stansberry, Wade A <wade.a.stansberry@wv.gov>
 Fri, Apr 22, 2022 at 3:23 PM

 To: Brad Nelson <Brad_Nelson@tcenergy.com>, cervin@prestoncountywv.com, "Gayne J. Knitowski" <gayne.j.knitowski@wv.gov>

I have attached a copy of the newly issued well permit number. This will serve as your copy.

47-077-00030 - 7398

If you have any questions, then please contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

2 attachments

47-077-00030 - Copy.pdf 2003K

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