

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, October 3, 2024 WELL WORK PLUGGING PERMIT Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC 1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re:

Permit approval for 7527 47-077-00155-00-00

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 Chief

Martin

Operator's Well Number: 7527

WOLFE, MAY M. Farm Name:

U.S. WELL NUMBER: 47-077-00155-00-00

Vertical Plugging

Date Issued: 10/3/2024

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.

1)Date	O	3/24	0 .,	20 24	
2)Oper	ator	ទែ			
Well	No.	Terra Al	ta South 7527	7	
3)API	Well	No.	47 - 077	- 00155	

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

	APPLICATION FOR A PERMIT TO PLUG AND ABANDON								
4)	<u> </u>								
	(If "Gas, Production or Und	derground storage X) Deep X / Shallow							
5)	Location: Elevation 1994.9	Watershed Wolf Run of Saltlick Creek							
	District Union	County Preston Quadrangle Terra Alta, WV							
6)	Well Operator Columbia Gas Transmission LLC Address T700 MacCorklle SE Charleston, WV 25314	7) Designated Agent Maria Medvedeva Address 1700 MacCorklle SE Charleston, WV 25314							
8)	Oil and Gas Inspector to be notified Name Gayne Knitowski Address PO Box 108	9) Plugging Contractor Name Next Lvl Energy, LLC Address 736 W Ingomar Rd, Units 268							
	Gormania, WV 26720	Ingomar, PA 15127-6613							
10)	Work Order: The work order for the mann	ner 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 $24\ \mathrm{hours}$ before permitted work can commence.

Work order approved by inspector House

Date

9/3/204

WELL JOB PL		STS Well	Engineering &	Technology			PAGE 1	DATE	JOB PREPARED:	4/27/2024
Objective: Plus	g and Abandon lug and Abandon		THE REAL PROPERTY.				The state of the	LEASE #:	WORK TYPE:	
	erra Alta South		WELL ID): 7527					47-077-00155	
	W		SHL (Lat/ Long		3	-79.581756			Preston	
	nion		BHL (Lat/Long			-79.581756		WELLLINE #:	X76SW7527	
EXISTING TUI	BULAR OD	WEIGHT			DE	PTH (ft)				
CONFIGURA		(PPF)	GRADE	THREAD	TOP	воттом	FORMATION	NOTES	TOP (ft)	BOTTOM (ft)
Conductor	13 3/8	48	H-40		0	30	Tully Lime		4503	4530
Surface	9 5/8	36	K-55		0	1792	Shale		4530	5086
Intermediate						50.10	Onondaga		5086	5104
Production	7	23	K-55	Seal-Lok	0	5249	Chert		5104	5249
Tubing	2 3/8	4.6	J-55	Seal-Lok	0	5435 *	Shale Oriskany	_	5249	5260
Tubing	* 15 pe	erforated pur	p jt on bottom, Bal	ker #800-20 1.	81" Model "J"	2-3/8" ported seating	Helderberg	 	5260 5395	5395 5435
	nipple, 1	3 full jts tubi	ing, Baker #810-0	4 1.87" Model	"L" sliding sle	eve, 162 full jts, 10 f	TD	1	5435	5435
		pup	jt, xover nipple, h	anger - top of s	sliding sleeve s	should be at ~5016 f	1	 	0400	0400
Perforations	Chert perfs	5114 - 5222	glass jet 1 shot/	ft density 6-1	/4" OH below	7" casing				
Wellhead						ction, tubing hanger				
CEMENT INFO						Calc TOC (ft)	Market W. St.	ELE	VATIONS (ft)	4 100 100
- Secretaria de la constante d	d'd to surface w/ 25 sx	Class A ne	at 2% cacl2 ceme	nt		0	KB-GL:			
	d to surface w/ 522 s					0	KB-RF:			
7 Cmt	d'd w/ 120 cu ft neat w/	1890lbs Ka	lite as lead and 3	75 gale Coolmo	ent as tail	4111	GL: 199	99		
, cini	to writzo ou it fleat wr	1000IDS NO	nic as lead and s	o gais Ceaiille	on as tall.	700	1			
MISC INFORMA	TION						DIRI	ECTIONAL WE	LL PROFILE (as	applicable)
Maximum stora Well TD: Top of storage	ulation ulated bottom-hole pre age field surface press zone:	essure (refer sure (MAOP):	2717 ps 2350 ps 5435 ft 5104 ft	are hidden sig * input sig * input TVD * input TVD * input					
Kill fluid density Proposed dept Calculated max	ximum BH pressure at y at top of zone @: h of BP: ximum BH pressure at y at depth of BP @: Required minim	150 t depth of BF	psi OB D: psi OB	10.69 pp	pg * output TVD * input sig * outpu pg * outpu	Kill Fluid (TOZ) t Kill Fluid (TOZ) t Kill Fluid (BP) t Kill Fluid (BP) er of the two				
22000							1		Office of Off	
	ent AOF:	577700	MCF/D						Unice of City	ald Gas
	historical AOF:		MCF/D				-			
Last	MVRT:	None availa	able						SEP 1 2 2	004
									- 0 2	UZ4
									MY Dec	FF 1944
									Wy Driver of A	Significa
										- SUUM
SBT	:	None availa	able				1			
							1			
							4			
PROPOSED YEA	AR: 20	25	ERCB PERMIT I	REQD:	YES	NO_X_	(Internal) PD	S Required:	YES NO_	
PREPARED BY:	Application of the second	W 94	REVIEWED BY:		ISSUED:		ADDDOVED:			
	Maria Me	edvedeva	TEVIEWED BY:		James A	mos	APPROVED:		Brent Cris	er
PREP DATE: 4/27/2024							Ma.	. 0 K	1) 9/2	1200

WELL JOB PLAN		STS Well Engineering & Technology			PAGE 2	DATE JOB PREPARED:	4/27/2024
Objective:	Plug and Abandon				A Transaction of the	WORK TYPE:	
TITLE:	Plug and Abandon						
FIELD:	Terra Alta South	WELL:	7527				
STAT:	W	SHL (Lat/Long):	39.381308	-79.581756		API: 47-077-00155	
TWP:	Union	BHL (Lat/Long):	39.381308	-79.581756	CI	NTY: Preston	
			PR	OCEDURE			

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 notes indicate tubing may have a blockage.

- Obtain State well work permit, EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
- 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.
- 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 remaning annuli with FW if able. Document volumes.
- 12 Kill well with 10.9 pg viscosified fluid. Verify tubing is open. 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 + anular). 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 5000'
- 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 5000
- 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 5100' then spot a second balanced cmt 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 for plan forward. No historic CBL log available. Calculated TOC is 4111'.

- 27 TIH with work string and install balanced cement plugs from last cement plug to TOC behind 7" casing (~4100').
- 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 1800'.
- 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.
- 36 Obtain CBL on the 9-5/8" casing to surface if cement is not observed at 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. Volumetric calculation confirms TOC at surface.

- 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.



PREPARED BY:	Maria Medvedeva	REVIEWED BY:	James Amos	APPROVED:	Brent Criser
PREP DATE:	4/27/2024			Lame	A 9/3/2004
				- 17	, 0

~ not to scale ~ **TERRA SOUTH ALTA 7527** Proposed P&A (as of 04/27/24) Sea Level @ 1999 ft 13-3/8" 48# H-40 csg @ 30' - Cemented to surface with 25 sx Class A neat 2% cacl2 cement 9-5/8" 36# H-40 csg @ 1792' - Cemented to surface with 522 sx Class A olite & 2% cacl2 Light grey fill indicates cement in place during well construction. Dark grey fill indicates cement placed during well abandonment Calculated TOC 4111' Tully Lime 4503 - 4530 Shale 4530 - 5086' CIBP ~5000 Onodaga Lime 5086 - 5104 Perfs 5114 - 5222' at 1 shots / ft in the Chert formation Chert 5104 - 5249' 7" 23# J-55 csg from 0 - 5249' Shale 5249 - 5260' - Cemented with 120 cu ft neat w/ 1890lbs Kolite as lead and 375 gals Cealment as tail. Oriskany 5260 - 5395' RECEIVED
Office of Oil and Gas Helderberg Lime 5395' - 5436' SEP 1 2 2024 6-1/4" Openhole TD 5435'

~ not to scale ~ **TERRA SOUTH ALTA 7527** Prior to P&A (as of 04/27/24) Sea Level @ 1999 ft 13-3/8" 48# H-40 csg @ 30' - Cemented to surface with 25 sx Class A neat 2% cacl2 cement 9-5/8" 36# H-40 csg @ 1792' - Cemented to surface with 522 sx Class A olite & 2% cacl2 Light grey fill indicates cement in place during well construction. Calculated TOC 4111' Tully Lime 4503 - 4530 Shale 4530 - 5086' Onodaga Lime 5086 - 5104 Perfs 5114 - 5222' at 1 shots / ft in the Chert formation Chert 5104 - 5249' 7" 23# J-55 csg from 0 - 5249' Shale 5249 - 5260' - Cemented with 120 cu ft neat w/ 1890lbs Kolite as lead and 375 gals Cealment as tail. Office of Oil and Gas Oriskany 5260 - 5395' SEP 1 2 2024 Helderberg Lime 5395' - 5435' 2-3/8" 4.6# J-55 csg @ 5435' WV Department of Environmental Protection - Syphon string - 15' perforated pup jt on bottom - Baker #800-20 1.81" Model "J" 2-3/8" ported seating nipple, 6-1/4" Openhole 13 full jts tubing, Baker #810-04 1.87" Model "L" sliding TD 5435' sleeve, 162 full jts, 10 ft pup jt, xover nipple, hanger - top of sliding sleeve should be at ~5016 ft 10/04/2024



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION

Rotary		
Spudder		
Cable Tools		
Storage	E TI	

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		OIL AND GAS	なたしょる ひょくじご
71		OIL MID OIL	
Quadrangle Kingwood		•	
4			

Permit No. Pres. 155 WELL	RECORD		Oli or	Gas Well Gas (KIND)
Company Columbia Gas Transmission Corporation Address P. O. Box 1067, Elkins, West Virginia	Casing and Tabing	Used in Drilling	Left in Well	Packers
Farm Hary M. Wolfe Acres	Size			
Location (waters) Wolfe Run	16	<u> </u>	<u> </u>	Kind of Packer
Well No. X-76-S 7527 Eley 1999.54	13_3/8	301	30'	
District Union County Preston	10			Size of
The surface of tract is owned in fee by Mary M. Wolfe	HU 9 5/8	1792'	1792'.	
Address	16H_3	5249	52491	Depth set
Mineral rights are owned by	5 3/16	l •	- :	+2.
Address	41/2			
Drilling commenced March 25, 1971	3		·	Perf. top (See reverse
Drilling completed April 19, 1971	<i>h</i> / 2 3/8	54361	54361	Perf. bottom side)
Date Shot Prom To	Liners Used			Perf. top
With				Perf. bottom
Open Flow /10ths Water in Inch	Attach copy of	cementing recor	rd.	
				No. FtDate
Volume Ca. Pt.	Amount of come	ent used (bags).	(See reve	erse side)
Rock Pressure 1bs hrs.	Name of Service	Co. Dowe	11	
Oilbbls., 1st 24 hrs.	COAL WAS E	NCOUNTERE	D AT Noue	FEETINCHES
WELL ACDIZED (DETAILS)	FEE	TBN	CHES	FEETINCHES
(See Reverse Side)	FBE	T	CHES.	FBET INCHES
WELL FRACTURED (DETAILS)		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
RESULT AFTER TREATMENT (Initial open Flow or bbls.)				
ROCK PRESSURE APTER TREATMENT 1600 #	HOURS	2		
Fresh Water Feet				
Producing Sand	· · · · · · · · · · · · · · · · · · ·	Depth		

Formation	Color	Hard or Soft	Тор	Bottess	Off, Gas or Water	Depth	Remarks
Shale and Siltstone		,	0	4503	Measured	from KB	
Tully Lime		-	4503	4530		. - '	*
Shale		•	4530	5086			
mondaga Lise			5086	5104			
Chert			5104	5249			
Shale			5249	5260			V
riskany Sand			5260	5395			
lelderberg Li	ne l	i	5395				\$71000
Total Dep	th			5435			
· .			•	,			
	٠ , ا				-		

Formation	Color	Hard or Soft	Тор	Bottem	Oil, Gas or Water	Depth Found	Remarks
NOTE:							
13 3/8"	48#/ft., 2% CaCl.	H-40, casing March 25, 1	cemented t	surface wi	th 25 sacks 7 kelly bus	of meat ceme hing.	nt plas
9 5/81	April 3,	K-55, casing 1971. Casing teads on.	cemented to	surface wi 92' G.L., 18	th 522 sacks 09' RB, 1789	Kolite plus threads of	2% C-C1. £,
7"	neat cem Gel dril	K-55, Seal-1 ent with 1890 ling mud to s 8' KB, 5287'	lbs. of Ko surface. Ca	ite added.	375 gals. C In Oriskany	ealment. Apr	
2 3/8"	nipple, bottom.	J-55, Seal- (1) Baker BF(April 19, 19 eads on.	Model "L"	sliding slee	ve. Sliding	sleeve is 4	
Perforation					,	"71	
		(5114' - 5222 urveys Inc.,			s jets shot	. Oriskeny	open hole.
Logging:	Genera 1	ay - PDC (44	00' - 5434')	April 18,	971	,	
Stimulation							
	٠,	rton stimula		1			e times.
	Or		al. Pen-5, l	B-11 525 ga: reak down 2: BPM., total	00f, average	cid,	
		bbla	of fresh	ater. 4-17-	71		-
	Set	retrievable	bridge plus	at 5245'			
	Ch€	t: (1) dru 31 gal.		1, 500 gal. k down 1900		d,	•
			2300f., 9 Bi f fresh wate	M, total voi			
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	Date	January 20,		, 19 <u>72</u>
PPROV	By	as Transmissi OMA and Storage	forest.	

COMPLETION OF RECONDITION DA Mo. Day Y Y - 19-71	TE (Open Flow 1000 Cubic Feet) 2,316	(Pounds Per Square Inch Gauged)	FIELD IEVER A Ha South WELL NO. 7527 SEC/LOT/M.S. 172-129 TWP/DIST. UNITAL COUNTY Hester STATE W. Va. FARM NAME Mayu M. Wolfe ELEVATION 1999.54' ORIGINAL TOTAL DEPTH 5435'
	CASING & TL	BING	
	12E WT. 3 6" 46=14t 5 6" 36=44 7" 23=44	#-40 30 L-55 179 L-55 5,24 T-55 543	- 25 Sacks reat plus 2% (cc) 21 - 522 Sacks Kolite plus 2% (ac) 19' - Row ft regular reat with 1890 lbs of kolite plus 325 Gol reatment. 6' Seal-lok the maj with below Model "I" and "L" seat nipple and slippe at Nopple Shepue 422' off bothers
WELLHEA LOG TAL	D VALVE-SIZE &	TYPE 2" KJ -+ tuloning n	Hawed 3000# Gate Value pple 820 THOS
SDOGGL ned treat	TAIL 4-17-18-	OT_ DV 13 Kan, - TVPC KARUM 22 31 callon A 1 into them.	ACIDIZED 1971 FRACTURED This Baroid 3-11 525 cal 28% HCl On# 4-18-81 Shept - 16hf Baroid B-1 M-5 Bieck Down 1980= Both wells TAIL)
H-18-7	LOGS ITYPE - Gamma Toude	La PDC 1	4400'-5434') (BASEN) 7-23-84 TOT-GR. 7-27-84 EMYTY HOLE GIBER SCAW
SCHLUMA A		REMARKS . Clar	- (5114' -5222') with 103 312"
REMARKS 4530, 5249-5 Total	Primit No. ONONDEGE /2 260 Dess Deprit - 543	Wess 155 ME 5096'- 5 MUY SAWA 15.	LETHOLOGY - TULLY 4503. 10H', CHERT - 5104-5249, SHALE 5260-5395 HELDENBURG 5395

WW-4A	
Revised	6-07

1) Date:	08/3	26/24	
2) Operator's We	ell Number		
Terra Alta South 7527			

00155

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

3) API Well No.: 47 -

1) Cfo O	non(a) to be sourced.	5)	(a) Coal Operator		_
4) Surface Ow (a) Name	ner(s) to be served: Margaux Bowman	3)	Name	Not operated	
Address	4454 South Hannibal Way	,	Address	Not operated	
Address	Aurora CO 80015-4439	0	Address		
(b) Name	Autora CO 600 13-4439		— (b) Coal Ow	ner(s) with Declaration	
Address			Name	ner(s) with Declaration	ı
Address			Address		
	-		Address		
(c) Name			Name		
Address			Address		RECEIVED
11441000			_		Office of Oil and Gas
6) Inspector	Gayne Knitowski		(c) Coal Less	see with Declaration	SEP 1 9 2024
Address	21 Energy Way		Name		- 5 2024
	Gormania, WV 26720		Address		Environment of
Telephone	304.546.8171				Protection
Take notice accompany Protection, the Applica	ou are not required to take an e that under Chapter 22-6 of ring documents for a permit to with respect to the well at th	y action at all. the West Virginia Co plug and abandon a e location described of mailed by registered	de, the undersigned well of well with the Chief of the on the attached Application d or certified mail or deli	operator proposes to file or has fi Office of Oil and Gas, West Vi on and depicted on the attached I	he instructions on the reverses side. iled this Notice and Application and reginia Department of Environmental Form WW-6. Copies of this Notice, named above (or by publication in
	OFFICIAL SEAL NOTARY PUBLIC OF HE WEST VIRGINIA DELOI GENERAL WARNING COLUMBIA GAS TRANSMISSION	Well Operator By: Its: Address	Maria Medvedeva Senior Wells Engineer 1700 MacCorkle Ave S	- Well Engineering and Technolog	уду
Subscribed and	Sworn before me this	Telephone	Charleston, WV 25314 304-410-4313	/ 2020 Notary Public	1
My Commission	Expires	130/25			
Oil and Gas Priva	cy 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.

Columbia Gas Transmission, LLC

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



August 26, 2024

Margaux Bowman 4454 South Hannibal Way Aurora CO 80015-4439

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 South 7527 (API 47-077-00155).

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

3188	U.S. Postal Service™ CERTIFIED MAIL® REC	
9469	For delivery information, visit our websited AUD on a r CO 20015 Certified Mail Fee \$4.25 Extra Services & Fees (check box, add fee & Concordate) Return Receipt (hardcopy) \$ \$1,111	27 0726 04
2000 OT h2	Return Receipt (electronic) Certified Mail Restricted Delivery Adult Signature Required Adult Signature Restricted Delivery \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	AUG 2 7H2024
45 5507	Total Postage and Fees \$18.80 Sent To Maygaux Bown	08/27/2024
12	Street and Apt. No., or R Box No. City, State, 2/P+4* PS Form 3800, April 2015 PSN 7530-02-000-9047	TAS 7527

USPS Tracking®

Tracking Number:

Remove X

70222410000263963188

Copy

Add to Informed Delivery (https://informeddelivery.usps.com/)

Latest Update

This is a reminder to arrange for redelivery of your item or your item will be returned to sender.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Delivery Attempt

Reminder to Schedule Redelivery of your item

September 4, 2024

Notice Left (No Authorized Recipient Available)

AURORA, CO 80015 August 30, 2024, 11:19 am

Out for Delivery

AURORA, CO 80015 August 30, 2024, 6:47 am

Arrived at Post Office

AURORA, CO 80015 August 30, 2024, 6:36 am

Arrived at USPS Regional Destination Facility

DENVER CO DISTRIBUTION CENTER August 29, 2024, 3:19 pm

In Transit to Next Facility



	See Less ^	
	Product Information	~
	USPS Tracking Plus®	~
	Text & Email Updates	~
٧	What Do USPS Tracking Statuses Mean? (https://faq.usps.com/s/article/Where-is-my-package)	
	Hide Tracking History	
Ì	August 27, 2024, 8:25 am	
Ĭ	USPS in possession of item CHARLESTON, WV 25304	
	LICEC in passagion of item	
	CHARLESTON, WV 25304 August 27, 2024, 4:42 pm	
	Departed Post Office	
200	August 27, 2024, 6:52 pm	
	CHARLESTON WV PROCESSING CENTER	
•	Arrived at USPS Regional Origin Facility	
	August 28, 2024	

Need More Help?

Track Another Package

Enter tracking or barcode numbers

Contact USPS Tracking support for further assistance.

FAQs

SURFACE OWNER WAIVER

Operator's Well Number

Terra Alta South 7527

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 o		e planned worl	k described in these	materials, and I have no
objection to a permit being issued on thos	se materials.			
FOR EXECUTION BY A NATURAL PE	RSON		FOR EXECUTION	ON BY A CORPORATION,
ETC.				, , , , , , , , , , , , , , , , , , ,
	Date	Name _		
Signature		By		
		Its		Date

Signature

API No.	47-077-00155	
Farm Name		
Well No.	Terra Alta South 7527	
	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/ own has examined this proposed plugging work order. done at this location, provided, the well operator Virginia Code and the governing regulations.	The undersigned has	s no objection to the work proposed to be
Date:		
	By:	
	Its	
		Office of Oil and Cas
		Office of OR and Cas SEP 1 2 2024
		Environmental Protection

API Number 47 -		00155
Operator's Well No	Terra Alt	ta South 7527

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FLOIDS/ CUTTINGS DISPOSAL & RECLAMAT	ION TEAN
Operator Name Columbia Gas Transmission O	P Code 307032
Watershed (HUC 10) Wolf Run of Saltlick Creek Quadrangle Terra	a Alta, WV
Do you anticipate using more than 5,000 bbls of water to complete the proposed well water to complete the proposed water to complete the p	work? Yes No
Will a pit be used? Yes No	
If so, please describe anticipated pit waste: fresh water, brine, cement retur	
Will a synthetic liner be used in the pit? Yes No If so, v	what ml.? 20
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a completed form WV Underground Injection (UIC Permit Number 34-167-23862 Reuse (at API Number	W-9-GPP)
Off Site Disposal (Supply form WW-9 for disposal location	n)
Other (Explain Mud Master 64054; Reserve Environmental Se	rvices (WMGR 123SW008)
Appalachian Water Services (WMGR 12	23SW001)
Will closed loop systembe used? If so, describe: No	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oi	il 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, s	sawdust) Subsoils
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Cas of any load of drill west Virginia solid waste facility. The notice shall be provided within 24 hours of rejewhere it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENE on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Er provisions of the permit are enforceable by law. Violations of any term or condition of or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am far application form and all attachments thereto and that, based on my inquiry of those ind the information, I believe that the information is true, accurate, and complete. I am submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title Senior Wells Engineer - Well Engineering and Technology Subscribed and sworn before me this	rvironmental Protection. I understand that the f the general permit and/or other applicable law miliar with the information submitted on this lividuals immediately responsible for obtaining
My commission expires $6/30/24$	10/04/2024

		1.0 Preveg etation pH 6 - 7	
Lime 2	Tons/acre or to соптес	ct to pH 7-8	
Fertilizer type 10-	-10-10		
Fertilizer amount_6	600	lbs/acre	
Mulch_ hay or st	raw @ 2	_Tons/acre	
		Seed Mixtures	
Te	emporary	Permanent	
Seed Type	lbs/acre	Seed Type lbs/acre	
Annual Rye	40	Orchard Grass and/or Tall Fescue	29
		Birdsfoot trefoil (empire)	9
		Annual Rye	12
attach: faps(s) of road, location, p rovided). If water from the L, W), and area in acres, of	it and proposed area for land	d application (unless engineered plans including this info have	been
Attach: Maps(s) of road, location, p provided). If water from the L, W), and area in acres, of Photocopied section of invo	it and proposed area for land pit will be land applied, pro f the land application area.	d application (unless engineered plans including this info have by the water volume, include dimensions (L, W, D) of the pit, a	been
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Attach: Maps(s) of road, location, p provided). If water from the (L, W), and area in acres, of Photocopied section of invo	it and proposed area for land e pit will be land applied, pro f the land application area. elved 7.5' topographic sheet.	d application (unless engineered plans including this info have ovide water volume, include dimensions (L, W, D) of the pit,	been
Attach: Maps(s) of road, location, porovided). If water from the (L, W), and area in acres, of Photocopied section of invo	it and proposed area for land pit will be land applied, profit the land application area. Plyed 7.5' topographic sheet.	d application (unless engineered plans including this info have ovide water volume, include dimensions (L, W, D) of the pit,	been

WW-9- GPP Rev. 5/16

	Page	of	
API Number 47	. 077	_ 00155	
Operator's Well N	lo. Terra	Alta South	7527

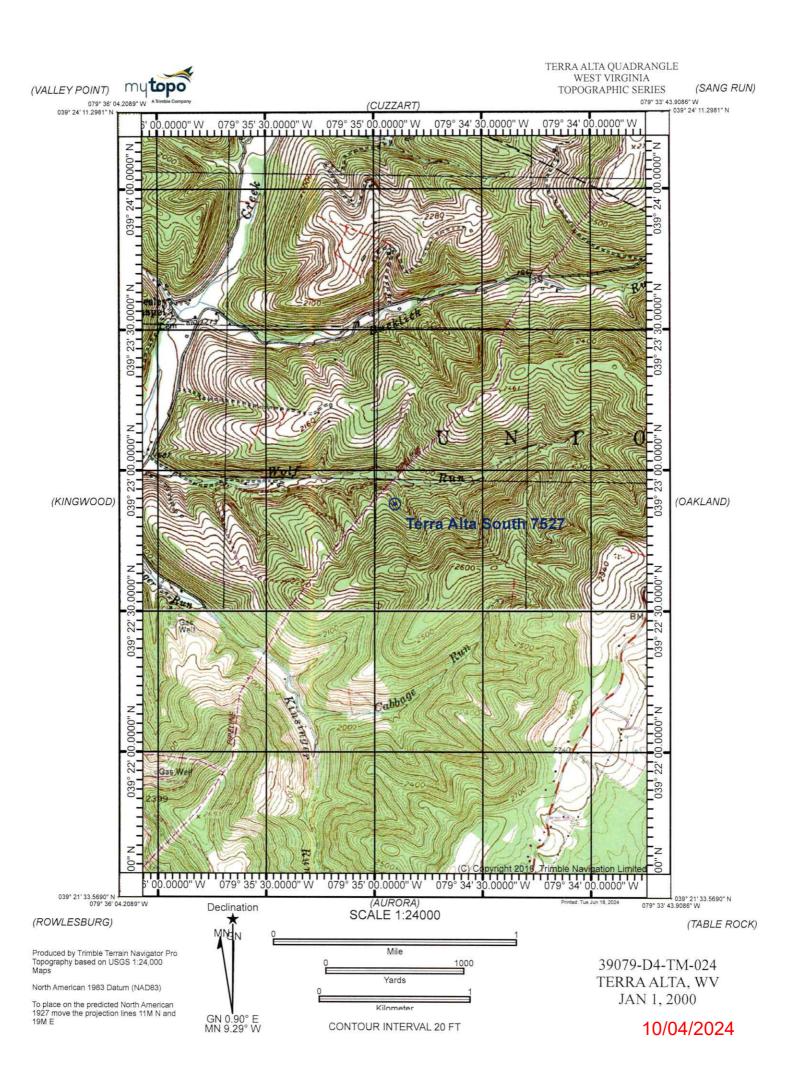
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

GROUNDWATER PROTECTION PLAN

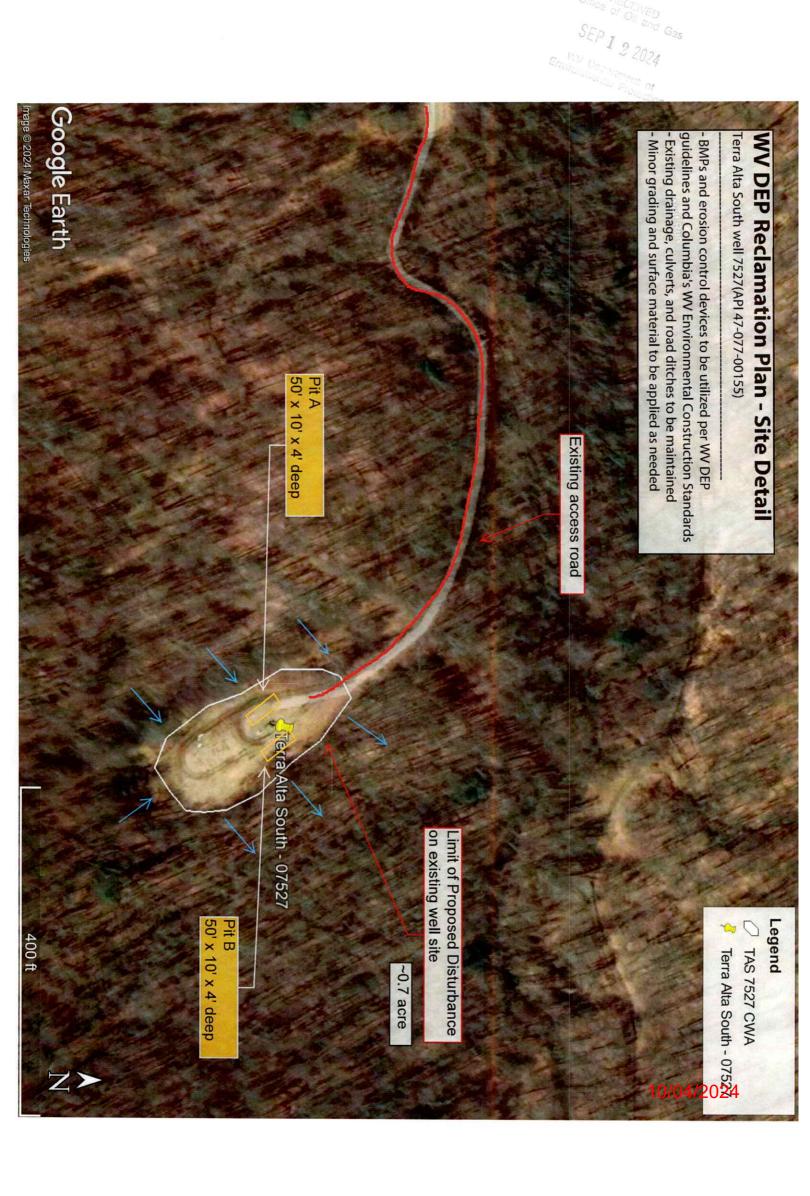
Quad: Terra Alta, WV
luids. Include a list of all operations that could contaminate the
s of fuel, oil, and lubrications will be stored on nonstruction equipment are the only sources of disposal facility.
ater quality from the list of potential contaminant sources above.
Il be monitored and inspected daily for leaks.
, and distance from closest Well Head Protection Area to the
1 miles N.
39167) is the closest Well Head Protection Area
lated for groundwater protection.

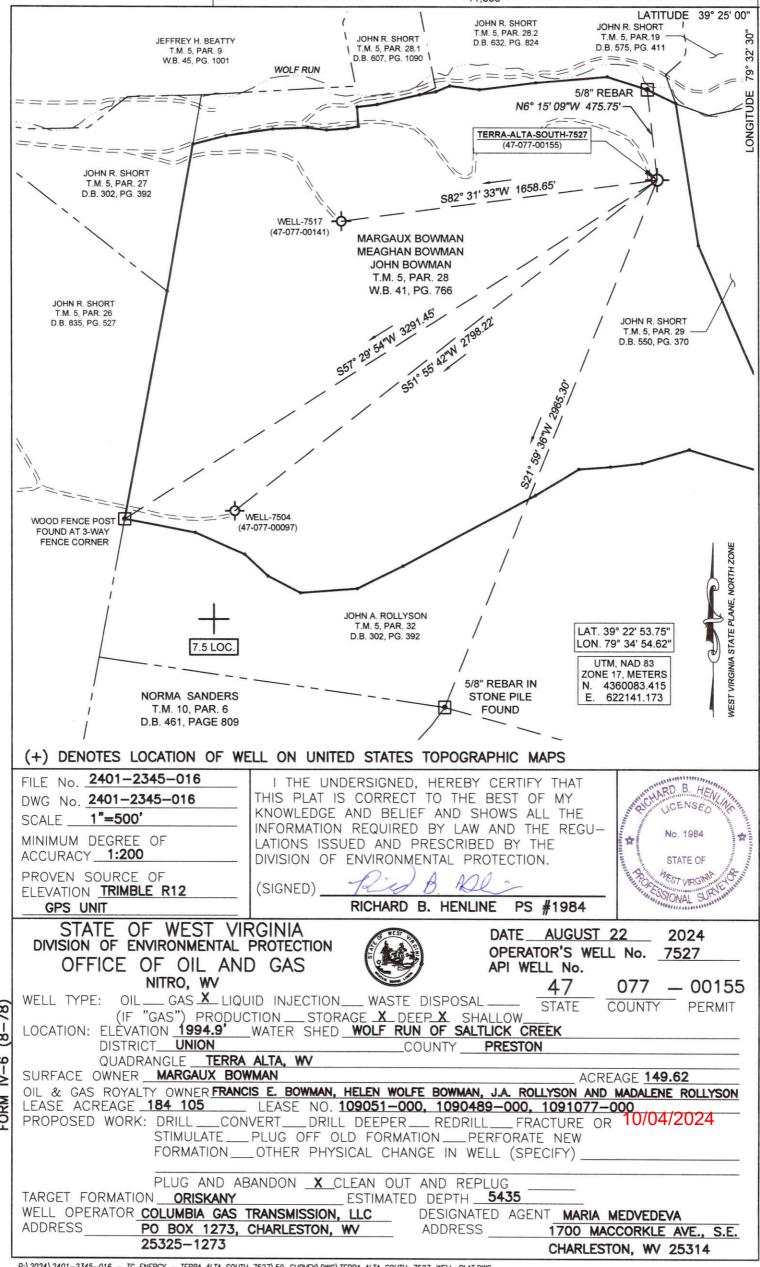
5. Discuss any existing groundwater quality data for your facility or an adjacent property.

N/A	
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.	
Describe the groundwater protection instruction and training to be provided to the employees. provide direction on how to prevent groundwater contamination.	Job procedures shall
During routine tailgate meetings, groundwater protection will be a topic of dis	cussion.
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 but located within secondary containment. Accidental release from well fluids a construction equipment are the only sources of contaminants to groundwater.	The state of the s
All construction and well servicing equipment will be monitored and inspected of spills.	daily for leaks or
Signature: Maleul	C (2)
Date: 28/24	











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 South 7527

(API 47-077-00155)

Please email to address below, and return hardcopies of permits to:

Columbia Gas Transmission 1700 MacCorkle Ave SE Charleston, WV 25314 Attn: Maria Medvedeya

If you have questions, feel free to call.

Regards,

Maria Medvedeva Senior Wells Engineer

Well Engineering & Technology Columbia Gas Transmission, LLC

Mob: 304-410-4313

maria medvedeva@tcenergy.com

RECEIVED
Office of Oil and Gas

SEP 1 2 2024

WV Do man, sol of Environmental instruction



Null, Gregory L <gregory.l.null@wv.gov>

Fwd: For Permit Application Payments

1 message

Whitlock, Renae D <renae.d.whitlock@wv.gov>
To: Gregory L Null <gregory.l.null@wv.gov>

Tue, Aug 27, 2024 at 3:08 PM

Correction below:

----- Forwarded message ------

From: Whitlock, Renae D <renae.d.whitlock@wv.gov>

Date: Tue, Aug 27, 2024 at 3:07 PM

Subject: Re: For Permit Application Payments To: Null, Gregory L <gregory.l.nuli@wv.gov>

The funding is listed below:

\$300 - 3322/9254/6869 \$2000 - 3323/9280/6869

Thank you, Renae

On Tue, Aug 27, 2024 at 3:04 PM Null, Gregory L <gregory.i.null@wv.gov> wrote: Can you provide the funding to deposit these payments

----- Forwarded message -----

From: Maria Medvedeva <maria_medvedeva@tcenergy.com> Date: Tue, Aug 27, 2024 at 3:02 PM

Date: Tue, Aug 27, 2024 at 3:02 PM Subject: For Permit Application Payments

To: Gregory, I.null@wv.gov < Gregory, I.null@wv.gov>

Gregory, good afternoon,

Please see below a table summary of the well permit applications that I would like to submit a payment for and the amount of each permit fee. This will go out to the WVDEP Office of Oil and Gas, attention Jeff McLaughlin. I provided the Visa details over the phone just now, last 4 of the card are -4694.

STORAGE FIELD	WELL#	API Permit#	CONCISE SCOPE of WORK	Amount for Payment
Coco C	7324	47-039-01533-0000	Obtain well logs, coil tubing cleanout and acid stimulation, Frac	\$ 900.00
Coco C	7354	47-039-01976-0000	Pull tubing, log, coil tubing cleanout and acid stimulation, re-run tubing	\$ 900.00

 $G = \{ 1, \dots, n \}$

SEP 1 3 2024

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

SALE

MID: 6993 TID: 00E30710 REF#: 00000002 Bank ID: 000000 Batch #: 1014 RRN: 241138629984 08/28/24 08:19:45 AIR: 1 CR: N

APPR CODE: 09596S VISA

VISA Markai CP

AMOUNT \$900.00

APPROVED

SIGNATURE NOT REQUIRED

1 ASSES TO PAY ABOVE TOTAL ADMINIT

I AGREE TO PAY ABOVE TOTAL AMOUNT IN ACCOMMENCE HITH CARD ISSUER'S AGREEMENT (MERCHANT AGREEMENT IF CREDIT VONCHER) 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#: 00000003 Barok ID: 000000 Batch #: 1014 RRN: 241192630042 08/28/24 08:20:42 AVR I CIC II

APPR CODE: 08806S VISA

visa *********4**69**4

AMOUNT

\$900.00

Manual CP

APPROVED

SIGNATURE NOT REQUIRED

! AGREE TO PAY ABOVE TOTAL AMOUNT IN ACCORDANCE HETH CARD (SCHER'S 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: 5983 TID: 00E30710 REF#: 00000004 Bank ID: 000000 Batch #: 1014 RRN: 741041830101 08/28/24 08:2141 India 6: 207

APPR CODE: 00297S

VISA Manual CP

AMOUNT \$100,00

APPROVED

SIGNATURE NOT REQUIRED

I AGREE TO PAY ABOVE TOTAL AMOUNT IN ACCORDANCE MITH CARD ISSORY'S AGREEMENT (BERCHANT AGREEMENT IF CREDIT WOUCHER) RETAIN THIS COPY FOR STATEMENT YERIFICATION

> Thank You Please Come Again

1

MERCHANT COPY



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

plugging permits issued 4707700155 07700156

Kennedy, James P <james.p.kennedy@wv.gov> Thu, Oct 3, 2024 at 12:05 PM To: Gayne J Knitowski <gayne.j.knitowski@wv.gov>, Maria Medvedeva <maria_medvedeva@tcenergy.com>, cervin@prestoncountywv.com

To whom it may concern, plugging permits have been issued for 4707700155 07700156.

James Kennedy

WVDEP OOG

2 attachments



4707700155.pdf 4178K



4707700156.pdf 4127K