

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, January 12, 2023
WELL WORK PLUGGING PERMIT
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC 1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re:

Permit approval for 7144 47-039-01552-00-00

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: 7144

Farm Name: WILLIAMS, H. F.

U.S. WELL NUMBER: 47-039-01552-00-00

Vertical Plugging Date Issued: 1/12/2023



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

Plugging permits issued 4703901552 03906116 03906118

1 message

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

Thu, Jan 12, 2023 at 9:14 AM

To: maria medvedeva@tcenergy.com, Terry W Urban <terry.w.urban@wv.gov>, sallierobinson@kanawha.us

To whom it may concern, plugging permits have been issued for 4703901552 03906116 03906118.

James Kennedy

WVDEP OOG

6 attachments

4703901552.pdf 6010K

4703906118.pdf 5584K

IR-8 4703901552.pdf 120K

4703906116.pdf 5180K

TR-8 4703906118.pdf 120K

IR-8 4703906116.pdf

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.

WW-4B Rev. 2/01

		2/2	1			
1)Date			Ŧ	,	2022	
2)Oper	ator	's		ē.		
Well	No.	Lanham	7144			
3)API	Well	No.	47-039		- 01552	_

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

Ch# 055005 \$100€

	OFFICE OF	OIL AND GAS	4 1000
	APPLICATION FOR A PERM	MIT TO PLUG AND A	BANDON
4)	Well Type: Oil/ Gas X / Liquid	d injection	/ Waste disposal /
	(If "Gas, Production or Und	derground storage	X) Deep/ Shallow X
5)	Location: Elevation 594	Watershed Pocata	alico River
	District Poca	County Putnam	Quadrangle Pocatalico, WV
6)	Well Operator Columbia Gas Transmission LLC	7)Designated Ag	_{ent} Maria Medvedeva
	Address 1700 MacCorklle SE		ess 1700 MacCorklle SE
	Charleston, WV 25314		Charleston, WV 25314
8)	Oil and Gas Inspector to be notified	9)Plugging Cont	ractor
	Name Terry Urban		Lvl Energy, LLC
	Address P.O. Box 1207	Address 7	36 W Ingomar Rd, Units 268
	Clendenin, WV 25045	<u>Ir</u>	gomar, PA 15127-6613
) Prior to P&A wellbore schematic.) Proposed P&A wellbore schematic.		RECEIVED N Department of named as Inspection
			*
Notifi Nork (ication must be given to the district oil can commence.	and gas inspecto	or 24 hours before permitted
Jork o	order approved by inspector Muyw	Uhla	Date 10-31-22

WELL JOB PLAN		STS Wel	Engineering 8	Technolog	V	WEST STATE	PAGE 1	DATE	102 2001 1000	,
Objective: Plug and A	bandon						PAGE 1		JOB PREPARED:	7/29/2022
TITLE: Plug and	Abandon						WOR	K TYPE:	PROFILE UPDATE:	1 4 1
FIELD: Lanham			WELL II					EASE#:	GPMC 48211	
STATE: WV DIST/TWP: Union			SHL (Lat/ Lon	g) 38.47639		-81.71694		API:	47-039-01552-0000	
EXISTING TUBULAR	OD	WEIGHT	BHL (Lat/Long	38.47639		-81.71694		CNTY:	Kanawha	
CONFIGURATION	(inches)	(PPF)	GRADE	TUREAR		PTH (ft)		LLINE #:	X2W7144	
Conductor	13 3/8	48.0	GRADE	THREAD	TOP	ВОТТОМ	FORMATION:	refer to	MISC INFORMATIO	
Surface	10 3/4	32.8			0	39 236	PAY: TD: 1509		ELEVATI	ONS
ntermediate	8 5/8	28.0			0	1412	TD: 1509 PBTD:		TMG:	
Intermediate							KB-GL:		KB-RF; GL: 59	94
Production Tubing	5 1/2	17.0			0	1426	CSG	DEPTH		
Perforations	2 3/8 No record	4.6	J-55		0	1509				
	140 record		Refer to "We	Ilbore Diagra	m" tab				Refer to "Wellbore	Diagram" tab
Wellhead	Field Fab 2k	. 5-1/2" flow	string x 8-5/8" su	nnort 2 v 11-1	/2"\/ connection	n	4			
	7" x 2" Type	"Q" tubing I	nead, 7" x 5-1/2" s	swedge nipple	/2 v connection					
D.H. EQUIPMENT			Alman Section	TYPE	NAME OF TAXABLE PARTY.	DEPTH (ft)				
PA	CKER INFO:	Upper				52(10)	4			
		Lower					1			
NIDDI E DDO	NEU E INCO.									
NIPPLE PRO	FILE INFO:	Upper Lower								
		Lower								
	SSSV INFO:	1					-			
EMENT INFO			BANK WINE			Calc TOC (ft)	-			
13 3/8 No cement re						-	1			
10 3/4 No cement re						-	1			
8 5/8 No cement re 5 1/2 Cemented wit										
5 1/2 Cemented wit	III 250 Sacks					0				
							4			
MISC INFORMATION		N PR	TENER DIST		WITH SUPERING		-			
REFER TO WELL SUI	MMARY RP	spread	Isheet tabs bel	ow)		(see				
Kill Fluid Calculation Maximum calculated bott Maximum storage field s * P&A before r	urface pressu	sure (for ref	* Note that kill fluid of erence only):	1036 ps 600 ps	ig * input					
Well TD: Top of storage zone: Calculated maximum BH Kill fluid density at top of	pressure at to	op of zone:	osi OB		100	Kill Fluid (TOZ) Kill Fluid (TOZ)				
Proposed depth of BP: Calculated maximum BH Kill fluid density at depth	pressure at d	epth of BP:	osi OB	1410 ft 7 620 psi 10.51 ppg		Kill Fluid (BP) Kill Fluid (BP)				
Requi	ired minimun	n kill fluid c	lensity:	10.6 ppg	g * greater	of the two				
Current AOF: Top historical A Last MVRT:	-	778 M 2,265 M o records	MCF/D MCF/D							
SBT;	No	o records								
OPOSED YEAR:	2023		RCB PERMIT RE		YES	NO_X_	(Internal) PDS Req	uired: YE	ES NO	
REPARED BY:	Maria Medv	edeva R	EVIEWED BY:		James Amo	25	APPROVED:		Brent Criser	
REP DATE:	7/29/202	22			J				Dum Cuser	

RECEIVED Office of Oil and Gas

DATE JOB PREPARED: 7/29/2022
LAST PROFILE UPDATE:
PE: GPMC
ADI (T. annum)
API: 47-039-01552-0000 NTY: Kanawha
-

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. NOTE: Well was killed in 2021 due to a casing collar leak. Location is unknown due to cement slab cover. Well pressure must be below 600 psi to begin the P&A for kill weight consideration and well control.

- Obtain State well work permit, EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
- Obtain General Work Permit and Wellsite Review & Turnover Form from Operations.
- 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.
- Disconnect well line. (done)
- Prepare access road and well site. Install ECD's per EM&CP.
- Service all wellhead valves.
- Document and report to WE&T the initial casing and annular pressures.

Well pressure must be below 600 psi to perform the P&A work

- Well was killed in 2021 using 14.1 ppg fluid. Circulate a 10.6 ppg kill weight viscosified polymer fluid around to get an even clean weight fluid in and out. Monitor well to ensure fluid level is static before continuing. If the well is not static, consult with the WE&T engineer (MIRU wireline unit, run RBP).
- 11 MIRU service rig.
- Remove tbg valve and bonnet.
- 13 Verify that the mandrel has lift threads and if so, stab a pup joint with a 2" valve into the top of mandrel. If mandrel doesn't have lift threads, consult
- 14 Spray / pour lubricant around top of tubing mandrel and around lock-down pins. Clean mandrel lift threads and verify thread profile.
- 15 NU 7-1/16" 3M gate valve, Cameron double BOP (blind-shear in bottom / 2-3/8" pipes in top), and annular. Function and pressure test low (250psi) and high (1100 psi based on the maximum calculated BHP)

Secure BOPE to prevent swaying to minimize torsional stress on interface between the flowstring and cement block, where the location of the leak is.

- Pull 2-3/8" tubing
- Obtain a CBL on the 5-1/2" casing to surface. Send digital copies of logs to WE&T engineer. 17
- RIH with 2-3/8" work string w/ cut-lip shoe, wash to TD (~1509'), and install bottom cement plug from TD to depth of 1300'. 18
- PU above cement top, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC (minimum 8 hrs).
- 20 RIH and tag cement. If cement has fallen below 1325', then spot a second balanced cmt plug.
- 21 Install a 5-1/2" CIBP as close as feasible to the cement plug.
- Top off 5-1/2" with kill fluid and perform 300 psig pressure test to verify integrity of BP. 22
- 23 Release all annular pressure.
- Top off annuli with fluid again, plumb to flowback tank with adjustable choke. 24
- Perforate through both the 5-1/2" and 8-5/8" casings as close to the CIBP as possible. Attempt to circulate to surface or establish injection. Note: there may be storage gas behind the 8-5/8" csg as the shoe is set at the top of the Big Lime; monitor for kick and 8 x 10 annular pressure.
- 26A If circulation to surface established, circulate kill weight fluid until good kill density fluid is returned. Consult with WE&T engineer to confirm procedure:
- > RIH with sliding-sleeve style cement retainer on work string
 - > Set retainer above perfs
 - > Establish circulation
 - > Squeeze cement behind 8-5/8" casing with pre-determined cement volume that occupies no more annular volume than that required to place top of cement at 250'
 - > Disengage from retainer, clean hole and TOOH.
 - > WOC 24 hours.
 - > Obtain CBL and compare to original CBL to evaluate squeeze cementing results. Utilize the same CBL tools.
- 26B If no circulation to surface, but injection established, consult with WE&T engineer to confirm procedure:
 - > RIH with sliding-sleeve style cement retainer on work string
 - > Set retainer above perfs
 - > Establish injection
 - > Disengage from retainer and spot cement at bottom of work string
 - > Squeeze cement behind 8-5/8" casing with pre-determined cement volume that occupies no more annular volume than that required to place top of cement at 250'
 - > Disengage from retainer, clean hole and TOOH.
 - > WOC 24 hours.
 - > Obtain CBL and compare to original CBL to evaluate squeeze cementing results. Utilize the same CBL tools.
- 26C If circulation / injection not established, perforate (per WE&T engineer) and repeat process above to 250'
 - * Note that during steps above cement plugs must be installed across all perf zones, casing shoes, and O/G/W zones

PREPARED BY:	Maria Medvedeva	REVIEWED BY:	James Amos	APPROVED:	Brent Criser
PREP DATE:	7/29/2022				Bum Cuin
			Buy I	lele 10.31.	RECEIVED Office of Oil and Gas

WELL JOB PLAN	STS Well Engineering & Techno	dam.				
Objective: Plug and Abandon	To Well Engineering & rechnology		PAGE 3	DATE JOB PREPARED: 7/2	9/2022	
TITLE: Plug and Abandon				LAST PROFILE UPDATE:		
FIELD: Lanham	WELL: 7144		WORK TYPE:	GPMC		
STAT: WV	SHL (Lat/Long): 38.47639	04.74004				
DIST/TWP: Union	BHL (Lat/Long): 38.47639	-81.71694		11 000 01002 0000		
		-81.71694 OURE (continued)	CNTY:	Kanawha		

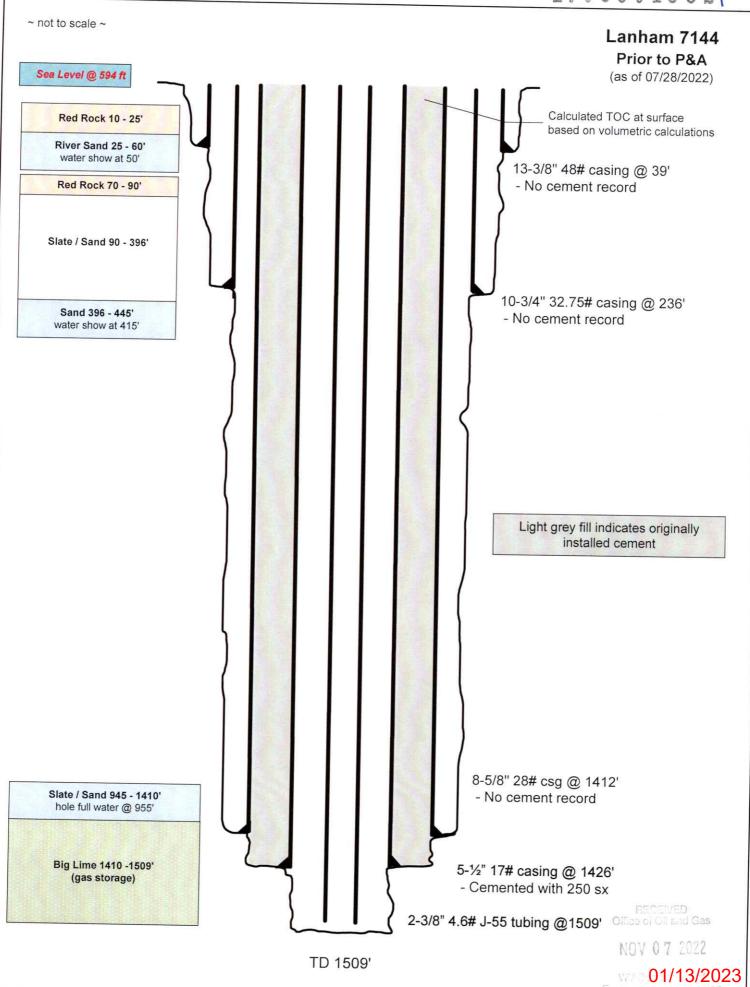
* If a verifiable annular cement barrier behind the 8-5/8" csg has not been installed during previous Steps consult with WET engineer to determine if additional well control measures (welding an annular barrier) are required before proceeding with procedure.

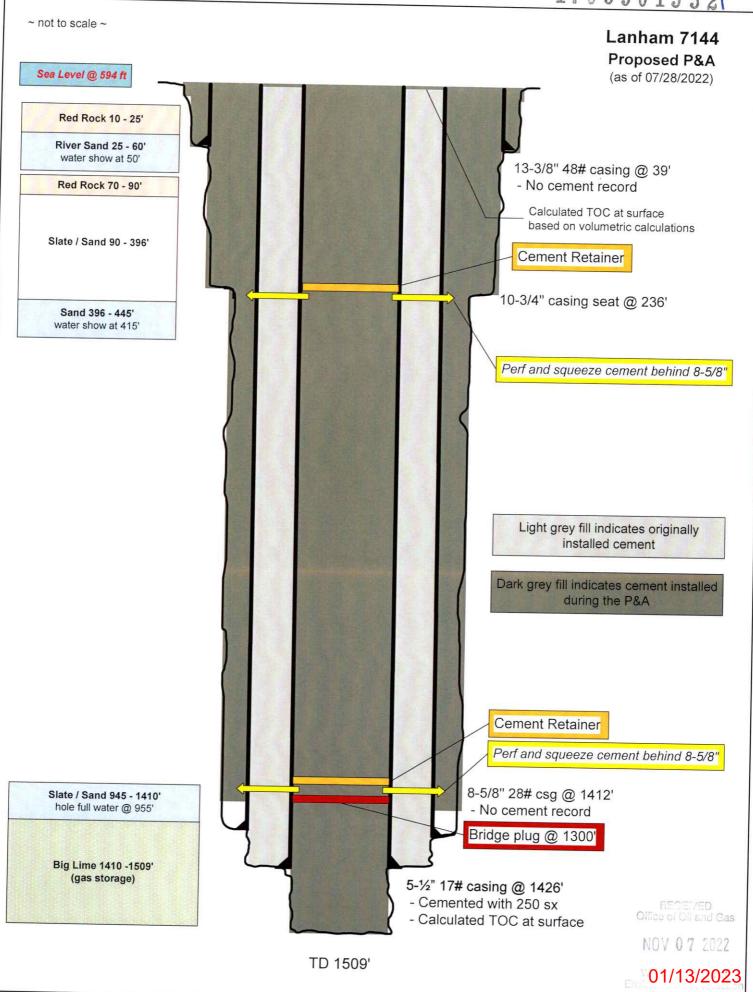
- 27 If applicable, install balanced cement plugs from PBTD to 250'.
- 28 ND BOPE and remove A-section.
- 29 If 5-1/2" csg is not cemented to surface, install pulling nipples on top of 5-1/2" and 8-5/8" casings.
- 30 Install a pulling nipple on top of 10-3/4" casing.
- 31 If 5-1/2" csg is not cemented to surface, free-point and cut / pull all 5-1/2" and 8-5/8" csg that is free.
- 32 Attempt to pull all 10-3/4" casing that is free. If can't pull and 5-1/2" / 8-5/8" casings were pulled as per Step 31, then wireline freepoint and cut / pull all 10-3/4" that is free.
- Perforate through both the 5-1/2" and 8-5/8" casings above inside cement plug, ~250'. Attempt to circulate to surface or establish injection.
- 34A If circulation to surface is established, circulate until clean fluid is returned. Consult with WE&T engineer to confirm procedure:
 - > RIH with sliding-sleeve style cement retainer on work string
 - > Set retainer above perfs
 - > Establish circulation
 - > Squeeze cement behind 8-5/8" casing to surface
 - > Disengage from retainer.
 - > Install cement plug inside the 5-1/2" casing to surface.
- 34B If no circulation to surface, but injection is established, consult with WE&T engineer to confirm procedure:
 - > RIH with sliding-sleeve style cement retainer on work string
 - > Set retainer above perfs
 - > Establish injection
 - > Disengage from retainer and spot cement at bottom of work string
 - > Squeeze cement behind 8-5/8" casing to surface.
 - > Disengage from retainer.
 - > Install cement plug inside the 5-1/2" casing to surface.
- 34C If circulation / injection not established, perforate 100' (per WE&T engineer) and repeat process above to surface.
- Note that during steps above cement plugs must be installed across all perf zones.
- 35 Grout all annuli as deep as possible.
- 36 RDMO service rig.
- 37 Erect monument per state regulations. Reclaim location and lease road.
- 38 P&A complete.
- 39 Notify REG / WE&T that well is back in-service.

PREPARED BY:	Maria Medvedeva	REVIEWED BY:	James Amos	APPROVED:	Brent Criser
PREP DATE:	7/29/2022				

May 2 Mhla 10:31-22

RECEIVED Office of Oil and Gas





WELL SERVICE INCORPORATED

19TH FLOOR KANAWHA VALLEY BUILDING

Date (80/2 1950	CHARLESTON 1, V	W. VA.	-1-3	
Date 1821 2 1930			Service Ticket No. 1130	
Company P. O Street City - State Lease County Time called for Job started Waiting time Weather condition Contractor	Time on job Finished Road Condition Tractor Used Unit No.	Casing Size	ACKER SET	
Operator's W		l	P.	•8
Type operation: Casing pressure cement Casing Balance cement Casing Comb. Gel - cement Casing Squeeze cement Casing Squeeze chemical Plugging Gel - Cement Pumping Casing - Tubing Formation Cement Squeeze Formation Chem. Squeeze Killing well mud - water Supervising special tools Special tool used:	MATERIALS: Name Type Sacks	Casing Size Casing Size	WEIGH WEIGH WEIGH	th
SERVICE CE			OPEN HOLE DATA	1
Job charge P Pumping hrs. S Waiting time M Miles R. T. S Tool rental T Material chg. T Extra unit C Total characters	umping charge		Bridge Top Bridge BTM Water Formations: Name From To	_
Normal pump pressure /00		Size	Porosity	_
Return circulation at surface Return circulation of materials General Remarks:	Valing Jens	Open Hole	PermT. D.	
		\$ A		
petent and cooperative manner, efficie the lessee. Due to many unknown and SERVICE, INC. net to assume any rest Operator	and will operate under their superity operate the equipment and with variable conditions, of which we have bons billity toward unsuccessful results.	rvision. Our Field ith additional ass we no mutual kn lts or incompletion	d Engineer and his crew will, in a co ssistance, if needed, to be furnished	om- oby slb _{as}

4703901552P

United Fuel Gas Co

Approved 7/44
Superintendent

SERIAL	WELL	NO.X-2-7144	
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DIVINE - SERVE

LEASE NO._

MAP SQUARE 56-67

01/13/2023

RECORD O	F WELL NO. X-2-71	un on the		CASING AN	D TUBING	141110000000000000000000000000000000000	TEST BEFORE SHOT
	iams et alem of	SSIMS W	SIZE	WEIGHT	DEILLING	LEFT IN WELL	3/10 of Water in 28 in
in	Union	District	13		601-21	381-7H	/10 of Merc, inin
	Kanawha	County	10				Volume 73.000 Cu.
State of:	West Virginia		8 -		15031-31		TEST AFTER SHOT
Field:	Clendenin		5			14491-10	2910 of Water in 2 in
Rig Commen	ced	194	2		16301-8	1539191	
Rig Complete	ed	194					Volume 189,000 Cu.
Drilling Com	menced August 15.	19450					Hours After Sh
Drilling Com	pleted October 17	19450					Rock Pressure 340# 12-Hrs
Drilling to co	st	per foot					Date Shot
Contractor is	adkins Bro. Drl	g. Co.					Size of Torpedo
Address:	Huntington, W.	٧a.		NI TUHE			Oil Flowed bbls. 1st 24 hr
				Date	10/17/50		Oil Pumpedbbls. 1st 24 hrs
Driller's Nam	e Frank Mixer			_2_in.		Tubing or	
	Fat Adkins	,		Size of Pac	ker		Well abandoned and
				Kind of Pa	cker		Plugged 194
				1st. Perf. S	etfr	опа	
Elevation:	610.38			2nd Perf. S	etfr	om	

DRILLER'S RECORD

PORMATION	TOP	8011UM	THICKNESS	REMARKS
Surface	0	10	10	
Red Rock	10	25	15	
River Send	25	60	35	
White Slate	60	70	10	Water at 501
Red Rock	70	90	20	au ju
White Slate	90	160	70	
Sand	160	275	115	
White Slate	275	396	121	
Send	396	445	49	Water at 415!
Slate	145	448	3	
Sand	448	576	128	
Slate	576	610	34	
Lime	610	619	9	
Slate	619	630	11	RECEIVED
Sand	630	670	40	Unice of Off and Gas
Slete	670	730	- 60	NOV 0.7 2022
Lime	730	750	20	107.0

SERIAL WELL NO. X-2-7144

47039015.52 P

01/13/2023

LEASE NO.__

POW THE TO-61 DRILLER'S RECORD FORMATION воттом THICKNESS REMARKS Sand 750 770 20 Slate 770 830 60 Sand 830 910 80 Slate & Shells 910 920 10 Lime 920 945 25 Slate & Sand 945 1410 465 Water Hole Full 955' Big Lime 1410 1509 99 Gas at 1468 to 1470 Total Depth 1509 Gas at 1485 to 1487 3/10 Water in 2-inch

01552

WW-4A Revised 6-07

1) Date:	10/24/2	027				
2) Operator's Well Number Lanham 7144						
3) API Well No.: 47 -	039	_	01552			

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Ov	wner(s) to be served:	5) (a) Cool Oneset	
(a) Name	Michael D. & Sheila G. Trader	5) (a) Coal Operator Name	THE MAN TO SE
Address	433 Camp Virgil Tate Rd		Not operated
	Charleston, WV 25312	Address	
(b) Name	20012		
Address			ner(s) with Declaration
	9	Name	
	-	Address	
(c) Name			-
Address		Name	
11441655		Address	
6) Inspector	Torrelleter		
Address	Terry Urban	(c) Coal Less	ee with Declaration
Address	P.O. Box 1207	Name	5-00
TI-1-1	Clendenin, WV 25045	Address	
Telephone	304-549-5915		
			red this Form and the following documents:
Take notice accompany Protection, the Applica	that under Chapter 22-6 of the West Virging documents for a permit to plug and about the location do with respect to the well at the location do	ginia Code, the undersigned well operation a well with the Chief of the Osscribed on the attached Application	erator proposes to file or has filed this Notice and Application and office of Oil and Gas, West Virginia Department of Environmental and depicted on the attached Form WW-6. Copies of this Notice, red by hand to the person(s) named above (or by publication in
	W-11 O		
	Well Ope		ion ////////////////////////////////////
	By:	Maria Medvedeva	WOUNT
	Its:		/ell Engineering and Technology
	Address	1700 MacCorkle Ave SE	
		Charleston, WV 25314	
	Telephor	ne 304-410-4313	
Subscribed and a	worn before me this 20	625 7	272
	lan 1	day of <u>OCT</u> Z	WEST STATE OF THE
My Commission	Expires July	120,2025	Notary Public Official Seal State of West Virginia My Comm. Expires Jul 20, 2025
oil and Gas Privac	y Notice	,	1700 Maccorkle Ave. SE Charleston WV 25314
he Office of Oil on	d Coo mus		

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 Gas 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



October 27, 2022

Michael D. & Sheila G. Trader 433 Camp Virgil Tate Rd. Charleston, WV 25312

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to repair an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Lanham 7144 (API 47–039–01552).

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.

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Regards Domestic Mail Only For delivery information, visit our Charleston, WV 25312 \$4.00 0112 ervices & Fees (check box, a 05 0000 Return Receipt (hardcopy) Maria Medvedeva \$0.00 Return Receipt (electronic) Senior Wells Engineer \$0.00 Certified Mail Restricted Delive Postmark Adult Signature Required \$0.00 Here Well Engineering & Technology Adult Signature Restricted Delivery \$0.00 Columbia Gas Transmission, LLC \$9.90 10/27/2022 \$17.15 7020 Michael Sheeka LM 7144 SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Agent Attach this card to the back of the mailpiece, ☐ Addressee or on the front if space permits. Date of Delivery 1. Article Addressed to: D. Is delivery address different from item 1? Michael & Shella Trader If YES, enter delivery address below: ☐ No 433 Coump Virgil Charleston, W Service Type ☐ Adult Signature ☐ Priority Mail Express® Adult Signature Restricted Delivery ☐ Registered Mail™ 9590 9402 7677 2122 2704 49 ☐ Registered Mail Restricted
Delivery Certified Mail@ Certified Mail Restricted Delivery www.tcenergy.com 7020 3160 0000 3743 7850 n Delivery Restricted Delivery Mail Restricted Delivery PS Form 3811, July 2020 PSN 7530-02-000-9053

SURFACE OWNER WAIVER

Operator's Well Number

Lanham 7144

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 ol objection to a permit being issued on thos	e materials	e planned wor	k described in the	se materials, and I have no
FOR EXECUTION BY A NATURAL PER ETC.	RSON		FOR EXECUT	TON BY A CORPORATION,
000000	Date	Name		RECEIVED Office of Oil and Gas
Signature		By		NOV 0 7 2822
		Its .		Date Date
			Signature	©4/4 3/2023

WW-4B

API No.	47-039-01552
Farm Name	
Well No.	Lanham 7144
	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
and chammed this proposed plugging wor	/ owner/ lessee/ of the coal under this well location is order. The undersigned has no objection to the work proposed to be operator has complied with all applicable requirements of the West ons.
Date:	
	By:
	Its



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 Phone (304) 926-0450

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

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

IN THE MATTER OF A VARIANCE FROM LEGISLATIVE RULE 35CSR4 SECTION 14.1. AND LEGISLATIVE RULE 35CSR8 SECTION 20.1, RELATING TO THE CEMENTING OF OIL AND GAS WELLS)))	ORDER NO.	2022-13
OF OH HILD GAS WELLS)		

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well plugging.

FINDINGS OF FACT

- On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
- Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
- Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a
 variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in
 place of API Class A cement, relating to the plugging of horizontal wells.

4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogramed by API is approved for use in place of API Class A cement for well plugging subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oll and Gas

> RECEIVED Office of Oil and Gas

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Ellerate I in the sensor

4703901552P

A PI Number 47 - 039 - 01552
Operator's Well No.—Lanham 7144

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) Pocatalico River Quadrangle Pocatalico, 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 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 Disposed (Sumble for WW 0.5 vi)	
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Mud Master 64054; Reserve Environmental Services (WMGR123SW005)	
Appalachian Water Services (WMGR123SW001)	
Will closed loop systembe 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.	
where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for o btaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.	
Company Official Signature // // // // // // // // // // // // //	
Company Official (Typed Name) Maria Medvedeva	
Company Official Title Senior Wells Engineer - Well Engineering and Technology	
REO EIVED	
Subscribed and sworn before me this 20 day of 01, , 20 72	
NOV 07 2022	
My commission expires To 4 20 2025 Notary Public Official Seal State of West Virginia My Comm. Expires Jul 20 2025 TC ENERGY 0 12925 3 202	3
1700 Maccorkle Ave. SE Charleston WV 25314	_

Proposed Revegetation Tre	eatment: 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_	600lb:	s/acre	
Mulch_ hay or st	traw @ 2Tons/a	cre	
	Seed	Mixtures	
Т	emporary	Permanent	
Seed Type	lbs/acre	Seed Type	11
Annual Rye	40	Orchard Grass and/or Tall F	lbs/acre escue 29
		Birdsfoot trefoil (empire)	9
		Annual Rye	12
For wetland areas:	Appual Dua (40 lbs/ssss)	until indigenous plants re-est	
Maps(s) of road, location, provided). If water from the W), and area in acres, of	pit will be land applied, provide wat	tion (unless engineered plans including this er volume, include dimensions (L, W, D)	is info have been of the pit, and dimens
L, W), and area in acres, of	the land application area. lved 7.5' topographic sheet.	tion (unless engineered plans including this er volume, include dimensions (L, W, D)	is info have been of the pit, and dimens
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WW-9- GPP Rev. 5/16

	Page	1	of	2
API Number 47 -		_	01552	
Operator's Well N	0-I anh	am	7144	

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

GROUNDWATER PROTECTION PLAN

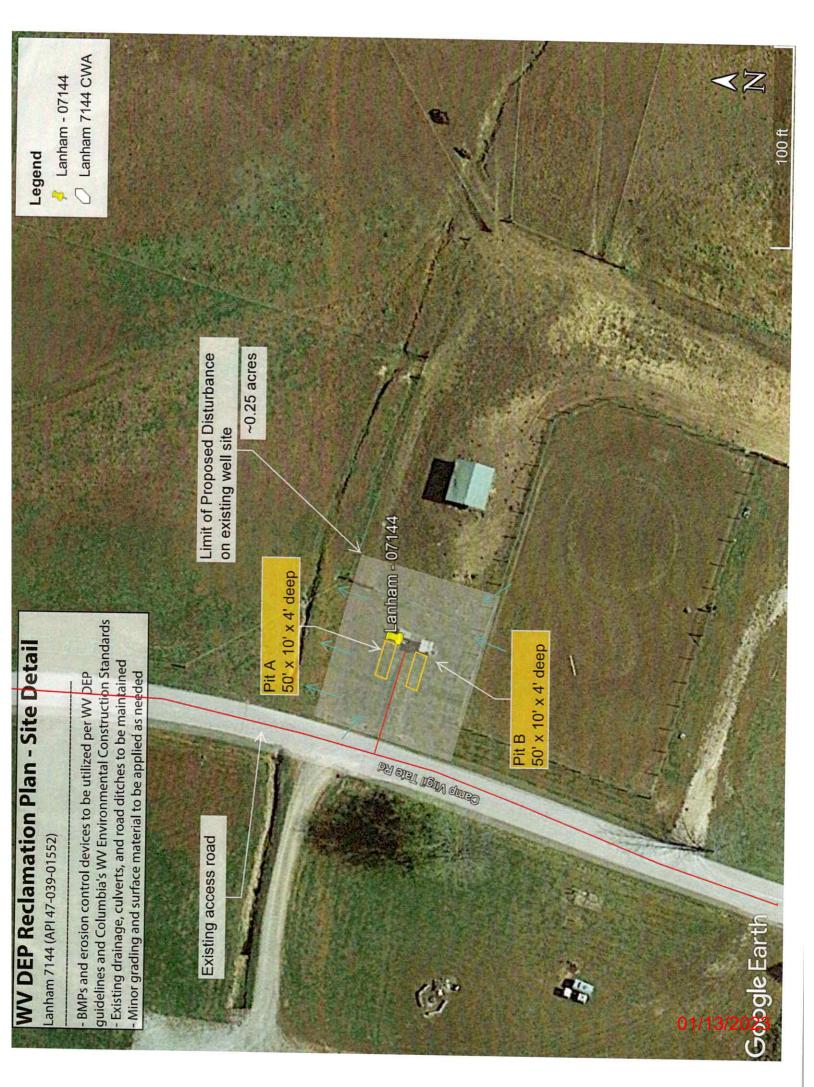
Operator Name: Columbia Gas Transmission LLC	
Watershed (HUC 10): Pocatalico River	Quad: Pocatalico, WV
Farm Name:	
List the procedures used for the treatment and discharge of flugroundwater.	uids. Include a list of all operations that could contaminate the
 No fluids planned to be discharged. No fertilizer will be stored on site. Small quantities site, but located within secondary containment. Accidental release from well fluids and spills from contaminants to groundwater. All accumulated fluids to be hauled off site to UIC 	construction equipment are the only sources of
Describe procedures and equipment used to protect groundwar	ter quality from the list of potential contaminant sources above.
All construction and well servicing equipment will Spill kits will be on site.	be monitored and inspected daily for leaks.
 List the closest water body, distance to closest water body, discharge area. 	and distance from closest Well Head Protection Area to the
Pocatalico River is at a distance of 0.19 miles W.	
Mason Co PSD-Crab Creek (WV3302714c) is the distance of 4.13 miles W from discharge area.	e closest Well Head Protection Area at a
Summarize all activities at your facility that are already regulat	
	ed for groundwater protection.
N/A	
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Page 2 of 2
API Number 47 - 039 _ - 01552
Operator's Well No._Lanham 7144

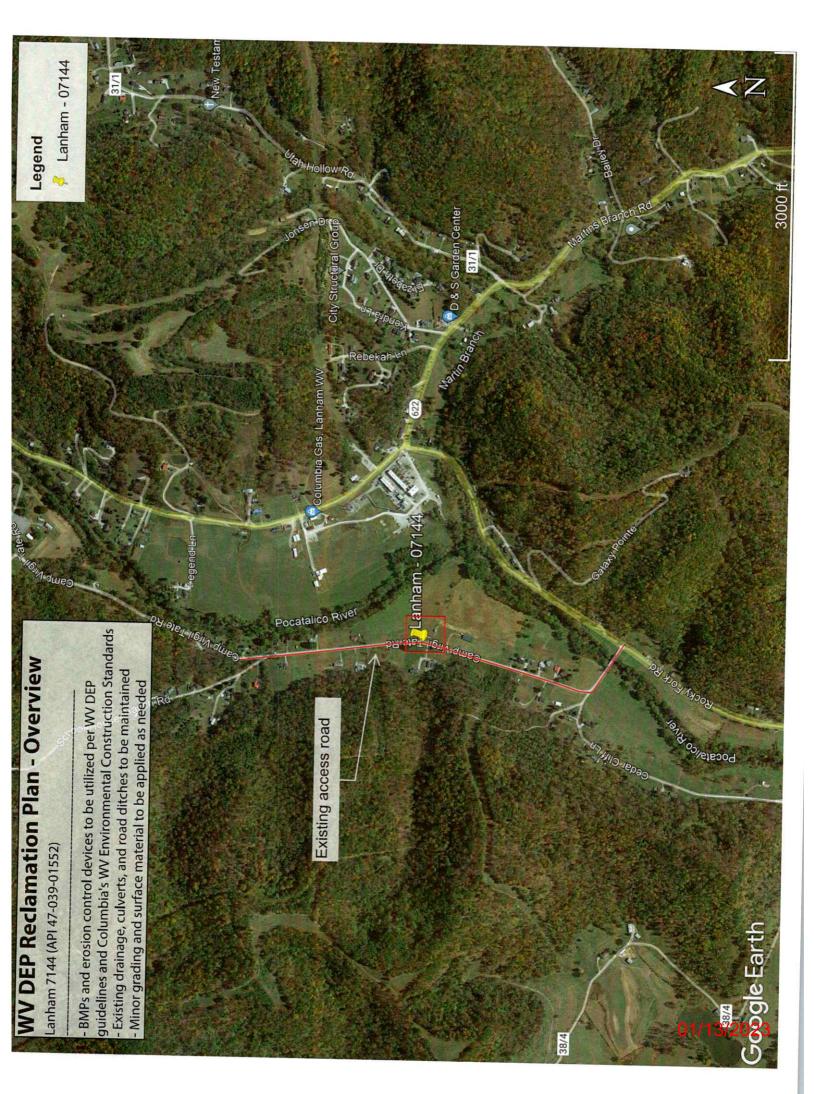
N/A
5. Provide a statement that no waste material will be used for deiging and the statement of
6. Provide a statement that no waste material will be used for deicing or fill material on the property.
No waste material will be used for deicing or fill material on the property.
Describe the groundwater 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.
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.
gnature: Mariol RECEIVED ate: 10/24/2022
ate: 10/24/2022 RECEIVED

01/13/2023



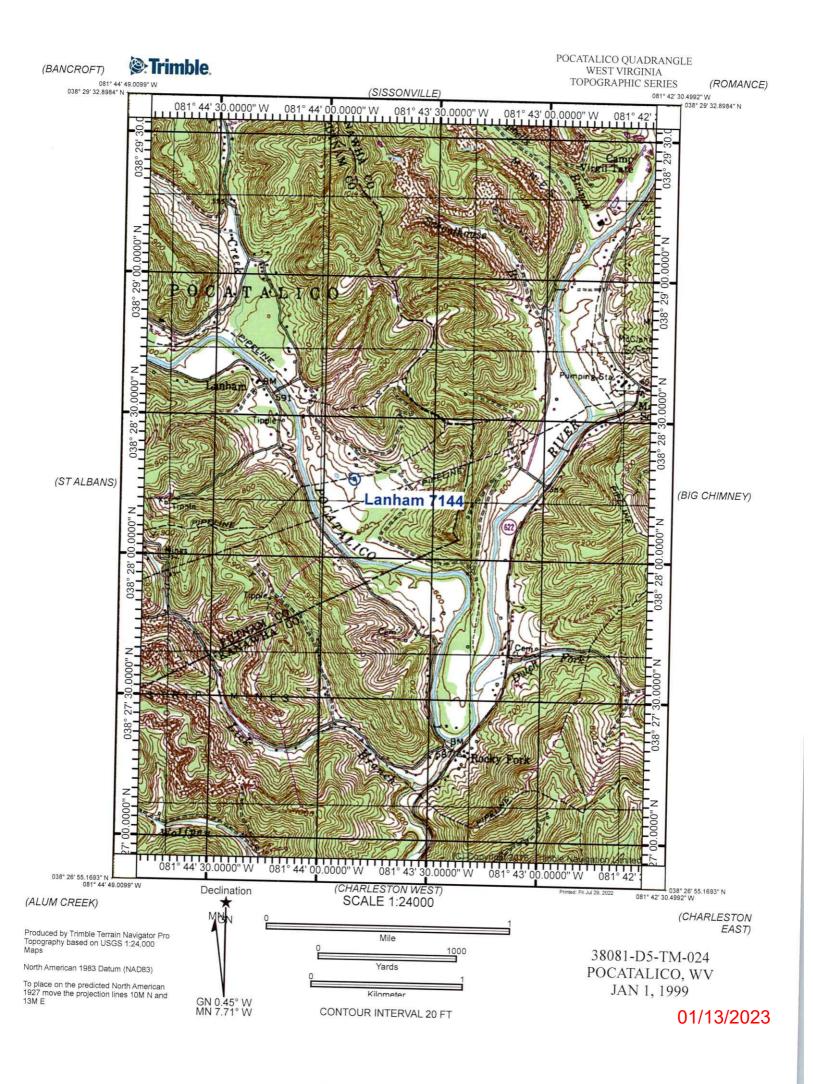
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Office of Oil and Gas

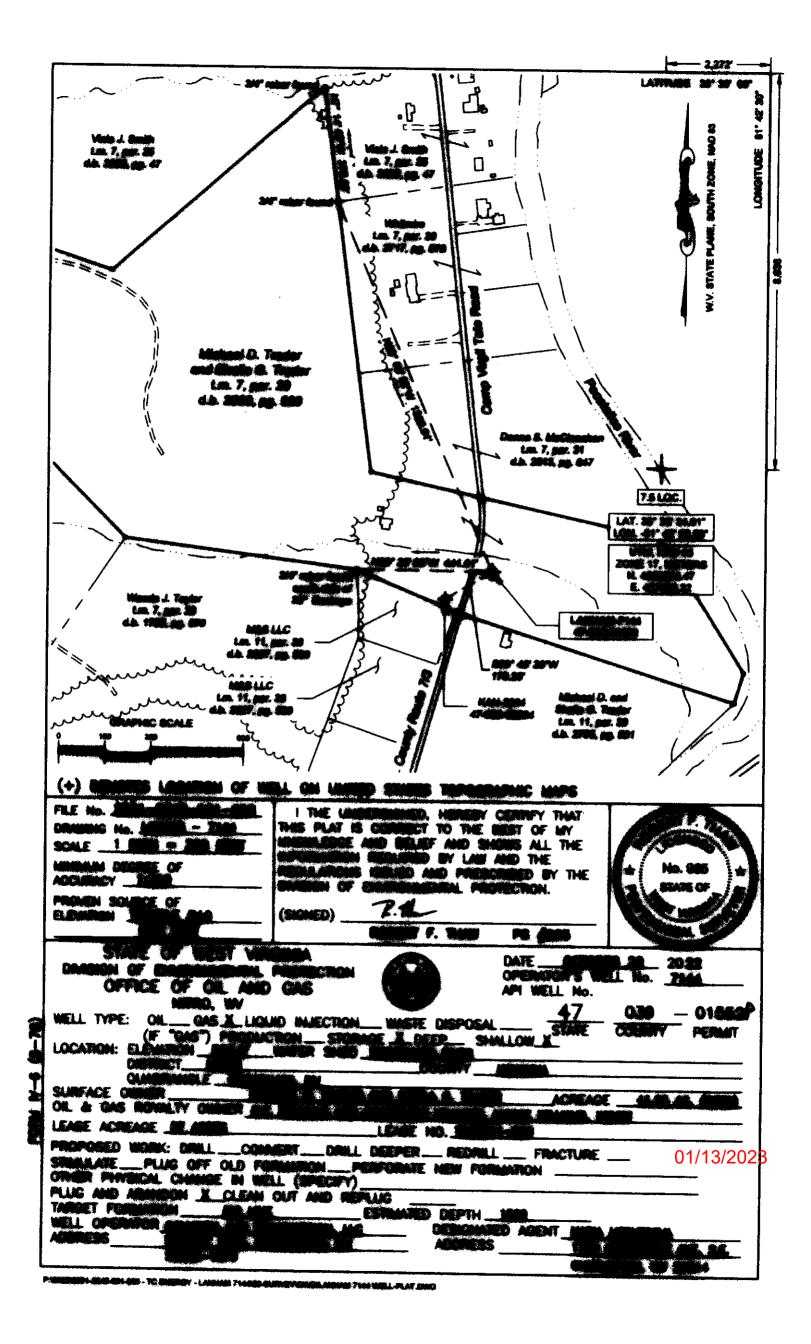
Environmental resident



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NOV 07 2022

Environment of



Columbia Gas Transmission, LLC

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



November 4th, 2022

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



RECEIVED

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

Lanham 7144 (API 039-01552)

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



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

Plugging permits issued 4703901552 03906116 03906118

1 message

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

Thu, Jan 12, 2023 at 9:14 AM

To: maria_medvedeva@tcenergy.com, Terry W Urban <terry.w.urban@wv.gov>, sallierobinson@kanawha.us

To whom it may concern, plugging permits have been issued for 4703901552 03906116 03906118.

James Kennedy

WVDEP OOG

6 attachments

4703901552.pdf 6010K

4703906118.pdf 5584K

IR-8 4703901552.pdf 120K

4703906116.pdf 5180K

TR-8 4703906118.pdf

IR-8 4703906116.pdf 120K