

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

Tuesday, October 10, 2023 WELL WORK PERMIT Vertical / Re-Work

COLUMBIA GAS TRANSMISSION, LLC 1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for LANHAM 7130

47-039-01058-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: LANHAM 7130

Farm Name: SELBE, CHARLES & EDNA

U.S. WELL NUMBER: 47-039-01058-00-00

Vertical Re-Work
Date Issued: 10/10/2023

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 permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. 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.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

Colum	bia Gas [·]	Transmission, LLC	307032	Kanawha	Union	Pocatalico, WV	
-			Operator ID	County	District	Quadrangle	
2) Operator's Well Number: Lanham 7130 3) Elevation: 631.6							
4) Well Type: (a) Oil or Gas X							
(b) If Gas: Production / Underground Storage X							
Deep/ Shallow X							
5) Proposed Target Formation(s): Big Lime Proposed Target Depth: 1487 6) Proposed Total Depth: 1487 Feet Formation at Proposed Total Depth: Big Lime 7) Approximate fresh water strata depths: 100' as reported by driller 8) Approximate salt water depths: 1015' as reported by driller							
oal sear	n depths	None reported by	driller				
void der	oths (coa	al Karst other). N	lone reported b	y driller			
						 /.	
ntain co	al seam	s tributary to activ	e mine?	0			
		ū				1 . 1	
l seals as	s needed,	pull tubing, run HRV	RT log, re-run t	tubing, spot 100	0 gal 15% HCl	acid de	
nt listed	below are	existing			Aury -	1/3	
	C4	SING AND TURI	NG PROGR	AM * existir	ng Q	.93	
ECIFIC	_				CEME	<u>VT</u>	
ize	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu	. Ft.)	
0.75 *		40.5	45	45 ENE	eg Cere		
7 *	J-55	22	1449	1 1 P O	200		
				1817	37.		
				OMECEP	TIETTI CE CHON	`	
				om SEP	Tental Total Col		
5.5 *	J-55	15.5	1466	1466 Erw	arrental Protection	SX	
5.5 * .375*	J-55 J-55	15.5 4.7	1466 1453	SEP	arrental Protection	SX	
				9£P 1466 €046	arrental Protection	SX	
				9£P 1466 €046	arrental Protection	SX	
	Number Dil	Number: Lanha Dil or Ga f Gas: Produ Deep et Formation(s): Depth: 1487 esh water strata alt water depths oal seam depths void depths,(coa ntain coal seam sed well work an seals as needed, nt listed below are CA ECIFICATIONS ize Grade 0.75 *	Number: Lanham 7130 Dil or Gas X f Gas: Production / Under Deep / Sharet Formation(s): Big Lime Depth: 1487 Feet Formation in Feet Formatio	Number: Lanham 7130 Dil or Gas X If Gas: Production / Underground Stor Deep / Shallow X Let Formation(s): Big Lime	Number: Lanham 7130 3) Elevation: Or Gas X F Gas: Production / Underground Storage X Deep / Shallow X Deep / Shallow X Deep / Feet Formation at Proposed Targ Desh water strata depths: 100' as reported by driller all water depths: 1015' as reported by driller oral seam depths: None reported by driller oral seams tributary to active mine? Sed well work and fracturing methods in detail (attach additional seals as needed, pull tubing, run HRVRT log, re-run tubing, spot 100 CASING AND TUBING PROGRAM ECIFICATIONS FOOTAGE INTERVALS ize Grade Weight per ft For Drilling Left in Well 0.75 * 40.5 45 45	Operator ID County District Number: Lanham 7130 3) Elevation: 631.6 Dil or Gas X f Gas: Production / Underground Storage X Deep / Shallow X et Formation(s): Big Lime Proposed Target Depth: 1 Depth: 1487 Feet Formation at Proposed Total Depth: Big Lime Proposed Total Depth: 1 Desh water strata depths: 1015' as reported by driller all water depths: None reported by driller policy and depths, (coal, Karst, other): None reported by driller artain coal seams tributary to active mine? No seed well work and fracturing methods in detail (attach additional sheets if new seals as needed, pull tubing, run HRVRT log, re-run tubing, spot 1000 gal 15% HCI art listed below are existing CASING AND TUBING PROGRAM ECIFICATIONS FOOTAGE INTERVALS CEMENT ize Grade Weight per ft For Drilling Left in Well Fill -up (Cu 0.75 * 40.5 45 45 45 45	

WELL JOB PLAN		STS Well I	Engineering &	Technology			PAGE 1	DATE	JOB PREPARED: 4/21/2023
Objective: Baseline									PROFILE UPDATE:
	ing, log, rerun tu	bing, acid sti						TYPE:	Well Integrity
FIELD: Lanham	1		WELL ID:				LE	EASE #:	48205
STATE: WV			SHL (Lat/ Long)			-81.718955		API:	47-039-01058-0000
DIST/TWP: Union	p I op	MEIGHT	BHL (Lat/Long)	38.459708	DE!	-81.718955	VAICE I	CNTY:	Kanawaha
EXISTING TUBULA		WEIGHT	CDADE	TUBEAD		PTH (ft)		LINE #:	X2W7130 o MISC INFORMATION section
CONFIGURATION Conductor	(inches) 10 3/4	(PPF) 40.5	GRADE	THREAD	TOP 0	BOTTOM 45	FORMATION: PAY:	Telei to	ELEVATIONS
Surface	7	22,0	J-55		0	1449	TD MD: 14	27	TMG:
Intermediate		22.0	0-00	-	U	1443	TD TVD: 14		KB-RF;
Production							KB-GL:	07	GL ref elev.:
Production	5 1/2	15.5	J-55	 	0	1466	CSG	DEPTH	
Tubing	2 3/8	4.7	J-55		0	1453 *	-	DEI II	VILLEDOILE GOVERNATIO
. coming				w/ Baker Mod		ple w/wireline entry.	1		Refer to "Wellbore Diagram"
Perforations	Open Hole				orr promoting	pro transmito orași	1		tab
Wellhead		/2" FS x 7". :	2-3/8" 8rd wellhea	d connection.	8 5/8" casing v	velded to plate on	1		
	10 3/4" casi				o and comming .	To produce and			
D.H. EQUIPMENT				TYPE		DEPTH (ft)	1		
	PACKER INFO:	Upper					1		
		Lower					1		
						-	1		1
NIPPLE	PROFILE INFO:	Upper					1		
		Lower					1		
							1		
	SSSV INFO:						1		
CEMENT INFO						TOC (ft)	1		
7 No record	t						1		1
Cemente	d with 110 sx. Re	ecords indica	te cement to surfa	ice, see SBT o	comments	4000 J TOC	1		
5 1/2 below						1029 good TOC			
							1		1
							1		
									1
MISC INFORMATION							i		
Kill Fluid Calculati Maximum calculate	<u>on</u>	spread	dsheet tabs bel	ow)		(see	_		
* Maximum storage		ssure (MAOI	⊃ = 850 psi):	700 P	sig * input				
Well TD: Top of storage zone Calculated maximus Kill fluid density at to	m BH pressure a	t top of zone	:]psi OB	1439 ft 725 p		i Kill Fluid (TOZ) t Kill Fluid (TOZ)			
Proposed depth of I Calculated maximul Kill fluid density at c	m BH pressure a	at depth of BF	o:]psi OB	725 P	-	it Kill Fluid (BP) it Kill Fluid (BP)			
F	Required minim	um kill fluid	density:	11.7	opg * great	er of the two			
								TED.	585
Current A			MCF/D				100	Elin and)
	orical AOF:		MCF/D				A KE	Oil	1.03
Last MVf	₹ E	None availa	able				9000),	4013
SBT:			_GR from 9.19.05 29, partial to 200,			n bottom logged at strung out to	Oppo	EP 19	partners of protection
								ENVIORE DE	ne ta
PROPOSED YEAR:	2	024	ERCB PERMIT DT. APPLIED:		YES ISSUED:	NO	(internal) i	_	
PREPARED BY:	Maria M	ledvedeva	REVIEWED BY:		James A	Lmos	APPROVE		overable Signature
PREP DATE:	4/2	1/2023						<u>X</u>	Dut El

WELL JOB PLAN	STS Well Engineer	STS Well Engineering & Technology			DATE JOB PREPARED:	4/21/2023
Objective: Baseline Integrity Project					LAST PROFILE UPDATE:	
TITLE: Pull tubing, log, rerun tub	ing, acid stimulate			WORK TYPE:	Well Integrity	
FIELD: Lanham	WELL:	7130				
STAT: WV	SHL (Lat/Long):	38.459708	-81.718955	API:	47-039-01058-0000	
TWP: Union	BHL (Lat/Long):	38.459708	-81.718955	CNTY:	Kanawaha	
		PRO	CEDURE			

NOTE: Workover to be completed while field pressure is below 700 for well control and manageable KWF requirement.

- Well deliverability has dropped off significantly. 2021 recommendation for a CTCO / sitmulation noted in DataBase.
- 4" side valve was reported leaking around the valve stem in 2021, re-energized stem packing.
- Annulus pressure noted in 5-1/2" x 7" with 190 psi. Gas samples from flowstring and annulus are similar in composition suggesting storage gas source. Wellhead seals were repacked and pressure tested successfully end of 2022.
- Obtain State Permit, EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
- Notify landowner
- 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.
- 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. 9
- 10 Pressure test wellhead seals to 1100 psig. If pressure test fails, will replace WH seals when well is isolated.
- Kill well with a solids free brine system based on current field pressure (reference Kill Fluid Calculation section). Monitor well for 1-2 days to 11 determine if well is static. If the well is not static, consult with the WE&T engineer for next steps (may need to pump an LCM pill).
- 12 MIRU service rig.
- Remove tbg valve and bonnet. Spray/pour lubricant around top of tubing mandrel and around lock-down pins. Clean mandrel lift threads and verify 13 thread profile. Screw into mandrel a temporary pup joint and valve for well control.
- NU 7-1/16" 3M gate valve, Cameron double BOP (blind-shear in bottom / 2-3/8" pipes in top), and annular. Pressure test low (250psi) and high (1100 psi based on the maximum calculated BHP).
- Unseat mandrel and pull 2-3/8" tubing. Keep hole full while tripping tubing out by circulating over the top of the well for well control. 15
- Evaluate tubing condition, for tubing to be rerun back in the well. 16
- MIRU Baker Atlas Logging. Run guage ring and HRVRT. RDMO loggers. 17a

Request 1-day turnaround on HRVRT analysis. Condition of 5-1/2" casing will determine next steps. Consult with WE&T engineer before proceeding.

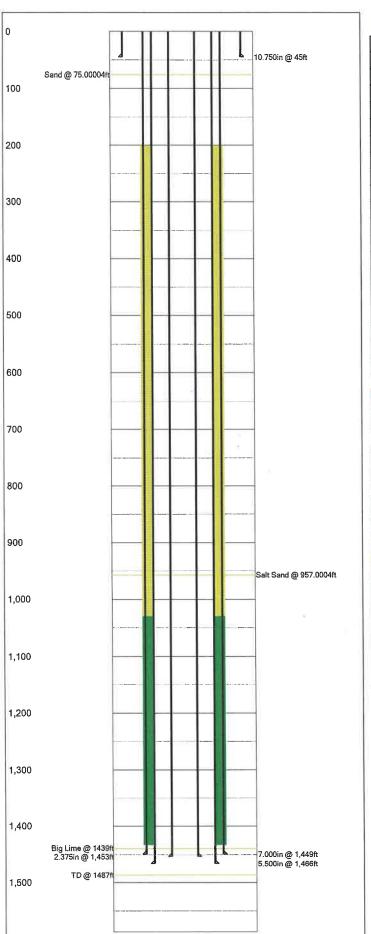
HIGH RESOLUTION VERTILOG (360° CM5100 D2FECTS).

If wellhead seals failed pressure test in step 10 proceed to next steps, otherwise go to Step 21.

- Install RBP1 (setting depth 1400' as correlated to Baker 09.19.2005 SBT). Perform pressure test to 500 psi. Install RBP2 ~300 ft above RBP1. 17b
- 18 Blow down 5-1/2" x 7" annulus, remove BOPs, gate valve, and tubing spool.
- Replace wellhead seals. Pressure test to 1100 psi. 19
- RIH and retrieve RBPs. RDMO loggers.
- Run tubing back in well with wireline re-entry guide, Otis 1.875 XN, ~4' pup joint, and Otis 1.875 X seating nipples on bottom. Space and land 21 bottom of wireline re-entry guide as close to bottom of 5-1/2" casing as possible. Lock down tubing mandrel.
- Remove BOPE and install remainder of wellhead for well control either screw into mandrel a temporary pup jt and valve and strip over or have stabbing valve ready to install.
- If an LCM pill was pumped to kill the well in step 11, spot and inject 1000 gal of 15% HCL treated with corrosion inhibitor, iron control / sequestering 23 agent and surfactant into storage zone. Displace with freshwater treated with biocide and clay stabilizer. Have liquid caustic on location to neutralize flowback fluids.
- 24 Swab / flow well to re-establish gas flow.
- 25 RDMO service ria.
- Reconnect well line. 26
- Notify WET Project Support that well is back in-service.
- 28
- Commission well by completing, processing, and retain for records the Wellsite Review and Turnover Form.

 Notify REG that well is ready for storage service. 29

REVIEWED BY: PREPARED BY: APPROVED: Brent Criser Maria Medvedeva James Amos PREP DATE: 4/21/2023



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	Name					Lease Name					Well No.		
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Versi	on	ì	Version	Tag				П					
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Office SEP 1 2 21123

WW Departmental Protection

www.WellShadow,com

Page 1 of 3

I-2 7/30 F-18610

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Ammie S. Bies Lanhes		Sige "	
Geluspien Carbon Co.		10 3/4"	科16# 1
Union District, Kentwis	County	8 3/82	182171
Map Square 56-65	1	22	1461 4
Elevation 631.6 D F		23/80 14	1491134
Commenced 9-23-43	**		
Completed 10-18-43		7.8	
	VII.		
	2.0		5

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1		
Seriace	0	15
Slate	· 15	75
Send	75	110
Slate & Shells	110	175
Sand	175	260
Slate & Shells	250	355 Prest Water 100' 6 BPH
Sand	355	1075: 5
Slate & Shells	435	
Sand	470	575
Slate	575	597 Big Lime Cas 1480-1485
Coal	597	
Slate & Sholls	600	757 Acidized with 1500 gals. acid william 13,657 MCF
Sand	957	1240 74 1c. R. P. 4607
Slate	1240	1275
Sand	1275	
Big Line	143%延	
*		
Total Dirii	14671	

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RECEIVED Office of Oil 2. Cas

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WV Department ofronmental Protection

Office of Oil and Cass.

SEP 19 2023

WW Department Protection

Environmental Protection

X-2 - 7/3 6 F-18610

01058

WW-2	2 A
(Rev.	6-14)

1). Date:	8/28/2	3	==	
2.) Operator's Well	Number	Lanha	m 71	130
	State	County		Permit
3) API Well No :	47-	039	-	01058

039

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

3.) API Well No.:

4) Surface Owr (a) Name Address	ner(s) to be served: <u>Edna Marie, Joev, Deborah</u> Selbe	5) (a) Coal Ope Name Address	erator Not operated
Addicas	6 Mallard Ln	71001033	
(b) Name	Charleston, WV 25312	(b) Coal O	wner(s) with Declaration
Address		Name	Not operated
		Address	
(c) Name		Name	
Address		Address	
		-	
6) Inspector	Terry Urban	(c) Coal Le	essee with Declaration
Address	PO Box 1207	Name	Not operated
	Clendenin, WV 25045	Address	
Telephone	304-549-5915		
	TO THE PERSONS I		
	e lease or leases or other continu	ing contract or contra	acts by which I hold the right to extract oil and gas
OR	- information or misseller Objects	- 00 A-4:-1- 0 D4:-	= 0/d) of the Code of Mach Missing (one page 2)
			n 8(d) of the Code of West Virginia (see page 2) inia Code I have served copies of this notice and
annlication a loca	ation plat, and accompanying doc	uments pages 1 thro	ugh on the above named parties by:
application, a loca	Personal Service (Affidavit a		
X	Certified Mail (Postmarked p		d)
	Publication (Notice of Public		
		and 35 CSR 4, and	I agree to the terms and conditions of any permit
issued under this			
			and am familiar with the information submitted on ry of those individuals immediately responsible for
	rmation, I believe that the informa		
			lse information, including the possibility of fine and
imprisonment.			
O	FFICIAL SEAL Well Opera		s Transmission, LLC
STATE (FFICIAL SEAL DTARY PUBLIC OF WEST VIRGINIA DE MORPORTUNINA DE	By: Maria Medve	
TC/ENERGY / CO	A Kennedy Warnick DLUMBIA GAS TRANSMISSION IACCORKLE AVE., SE	Its: Senior Wells	Engineer Storage Chnical Services
Cha	LAND DEPT AGGRE	ess: 1/00 MacCo	rkle Ave SE con and
My Commis	aion Expires June 30, 2026	ne: 304-410-431	VV 25314-4278 3
	F	nail: maria medy	edeva@icenergy.com ***
Subscribed and s		y of August	30 2th order
0,	//0	717	edeva@icenerav.com
Sepre	n Klas		Notary Publisherial
My Commission I	Expires 630/26		Elvin
Oil and Gas Privacy	Notice		

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

Columbia Gas Transmission, LLC

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



August 31, 2023

Edna Marie, Joey and Deborah Selbe 6 Mallard Ln 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 workover an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Lanham 7130 (API 47–039–01058).

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 or Chorleston w **46E9** ertified Mail Fee 84,35 Return Receipt (hardcopy)
Return Receipt (electronic) \$0.00 Maria Medvedeva Certified Mail Restricted Deli to, on Senior Wells Engineer Adult Signature Required 40,00 Adult Signature Restricted Delive Well Engineering & Technology 2410 \$9,65 Columbia Gas Transmission, LLC 205 Street and Apt. No., o LM 7130 PS Form 3800, April 2015 PSN 7530-02-000-9047 COMPLETE THIS SECTION ON DELIVERY **SENDER:** COMPLETE THIS SECTION Complete items 1, 2, and 3. **Agent** Print your name and address on the reverse ☐ Addressee so that we can return the card to you. B. Received by (Printed Name)

D. Is delivery address different for C. Date of Delivery Attach this card to the back of the mailpiece, or on the front if space permits. rticle Addressed to: Edna Marie, Joey & Deborah Service Type
Adult Signature
Adult Signature Re
Certified Mail® ☐ Priority Mail Express® 9590 9402 7630 2122 5682 62 Certified Mail Restricted Deliven www.tcenergy.com Collect on Delivery Number (Transfer from service label) ollect on Delivery Restricted Delivered Mail 3034 7022 2410 0002 6396 d Mail Restricted Delivery PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SURFACE OWNER WAIVER

County

Kanawha

Operator

Columbia Gas Transmission LLC

Operator well number

Lanham 7130

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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

<u>Time Limits and methods for filing comments.</u> The law requires these materials to be served on or before the date the operator files his Application. You have **FIFTEEN (15) 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.

<u>Comments must be in writing.</u> 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.

<u>List of Water Testing Laboratories.</u> The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

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 Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ____ including a work order on Form WW2-B, a survey plat, WW-9, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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 NATURAL PERSON

Date

Date

Date

Company
Name

Signature

Date

Name

By

Its

Print Name

Signature

Date

Date

	VNER, OR LESSEE WAIVER * coal not operated				
County Kanawha Operator Columbia Gas Transmission LLC Oper	rator's Well Number Lanham 7130				
•					
INSTRUCTIONS TO COAL O	PERATOR, OWNER, OR LESSEE				
To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:					
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654					
W	AIVER				
The undersigned coal operator/ owner/ lessee/ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. 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.					
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION BY A CORPORATION, ETC.				
Date	Company Name				
Signature	By Its Date				
	Signature Date				
	Office of Oil and Gas SEP 122023 SEP 172000 WV Department of Environmental Protection				

Operator's Well Number Lanham 7130

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

D.F. and Zelda Milam

United Fuel Gas Company

Storage Lease -1048205-000

123 / 376

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

RECEIVED Gas

SEP 122023

W Department of ENVironmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be nec essary and further affirms that all needed permits/approvals should be ac quired from the appr opriate aut hority before the af fected activity is initiated.

Well Operator:

Columbia Gas Transmission, LLC

By: Its:

Maria Medvedeva

Senior Wells Engineer Storage Technical Services

10/13/2023

WW-2B1 (5-12) NA

Well No. Lanham 7130

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Labora Sampling Contr		
Well Operator Address	Not applicable - existing underground natural gas storage well	
Telephone		

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

SEP 122023

WV Department of Environmental Protection

4703901058 ω

API Number 47 - 039 Operator's Well No. Lanham 7130

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

Operator Name Columbia Gas Transmission, LLC	OP Code 307032
Watershed (HUC 10) Dutch Fork of Pocatalico River	Quadrangle Pocatalico, WV
Do you anticipate using more than 5,000 bbls of water to	o complete the proposed well work? Yes No
Will a pit be used? Yes No No	9
If so, please describe anticipated pit waste:	<u></u>
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wa	stes:
	provide a completed form WW-9-GPP)
Underground Injection (UIC Reuse (at API Number	Permit Number_34-167-23862)
Off Site Disposal (Supply fo	rm WW-9 for disposal location)
	4054; Reserve Environmental Services (WMGR 123SW008)
	n Water Services (WMGR 123SW001)
Will closed loop systembe used? If so, describe: yes-	steel flow line to tanks
Drilling medium anticipated for this well (vertical and h	orizontal)? Air, freshwater, oil based, etc. Fresh water
-If oil based, what type? Synthetic, petroleum,	etc. N/A
Additives to be used in drilling medium? NaCl, biocide,	soda ash, polymer, starch, CaCO3, HCl acid
Drill cuttings disposal method? Leave in pit, landfill, re	moved offsite, etc. N/A
-If left in pit and plan to solidify what medium	will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? To be	e managed by Waste Management and US Ecology for disposal at permitted landfill
	ril and Gas of any load of drill cuttings or associated waste rejected at any rovided within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of the W provisions of the permit are enforceable by law. Violatic or regulation can lead to enforcement action. I certify under penalty of law that I have pe application form and all attachments thereto and that, but the information, I believe that the information is true, submitting false information, including the possibility of Company Official Signature Company Official (Typed Name) Maria Medvedeva Company Official Title Senior Wells Engineer Storage	ns and conditions of the GENERAL WATER POLLUTION PERMIT issued West Virginia Department of Environmental Protection. I understand that the ons of any term or condition of the general permit and/or other applicable law resonally examined and am familiar with the information submitted on this assed on my inquiry of those individuals immediately responsible for obtaining accurate, and complete. I am aware that there are significant penalties for of fine or imprisonment. Office of Water Pollution Permit issued Water Protection Technical Services Technical Services
Subscribed and sworn before me this	ay of August, 2027, 20 OFFICIAL SEAL NOTARY PUBLIC
Kuhn fl	NOTARY PUBLIC STATE OF WEST VIRIGINIA Rebecca Kennedy Warnick TC/ENERGY/COLUMBIA GAS TRANSMISSION 1700 MACCORKLE AVE, SE
My commission expires 6/30/26	1700 MACCORKLE AVE. SE LAND CEPT Charleston WV 25325 My Contribution Express use 30, 2026

Operator's Well No. Lanham 7130

roposed Revegetation Trea	tment: Acres Disturbed < 1.0		Prevegetation pH	6-7	
Lime 2	Tons/acre or to correct to pF	7-8			
Fertilizer type 10-	10-10				
Fertilizer amount 6	800	bs/acre			
{Mulch} hay or str	raw @ 2Tons	/acre			
	See	ed Mixtures			
Te	emporary	a'	Permane	nt	
Seed Type	lbs/acre		Seed Type	lbs/acre	
Annual rye	40	Orchard (Grass and/or T	all Fescue	29
		Birdsfoot	Trefoil (Empi	re)	9
		Annual R	ve		12
Maps(s) of road, location, provided). If water from the L, W), and area in acres, of hotocopied section of invo	olved 7.5' topographic sheet.				
Maps(s) of road, location, porovided). If water from the L, W), and area in acres, of Photocopied section of invo	e pit will be land applied, provide ver the land application area.	vater volume, inclu		(, D) of the pit, an	
Maps(s) of road, location, porovided). If water from the L, W), and area in acres, of Photocopied section of invo	e pit will be land applied, provide ver the land application area.	vater volume, inclu	de dimensions (L, W	(, D) of the pit, an	
provided). If water from the L, W), and area in acres, of	e pit will be land applied, provide ver the land application area.	vater volume, inclu	de dimensions (L, W	, D) of the pit, an	
Maps(s) of road, location, porovided). If water from the L, W), and area in acres, of Photocopied section of invo	e pit will be land applied, provide ver the land application area.	vater volume, inclu	de dimensions (L, W	(, D) of the pit, an	d dim
Maps(s) of road, location, porovided). If water from the L, W), and area in acres, of Photocopied section of invo	pit will be land applied, provide verified the land application area. Solved 7.5' topographic sheet.	vater volume, inclu	de dimensions (L, W	, D) of the pit, an	d dim

WW-9- GPP Rev. 5/16

	Page		of	
API Number 47	- 039		01058	
Operator's Well	No. Lanhar	n 7130)	

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

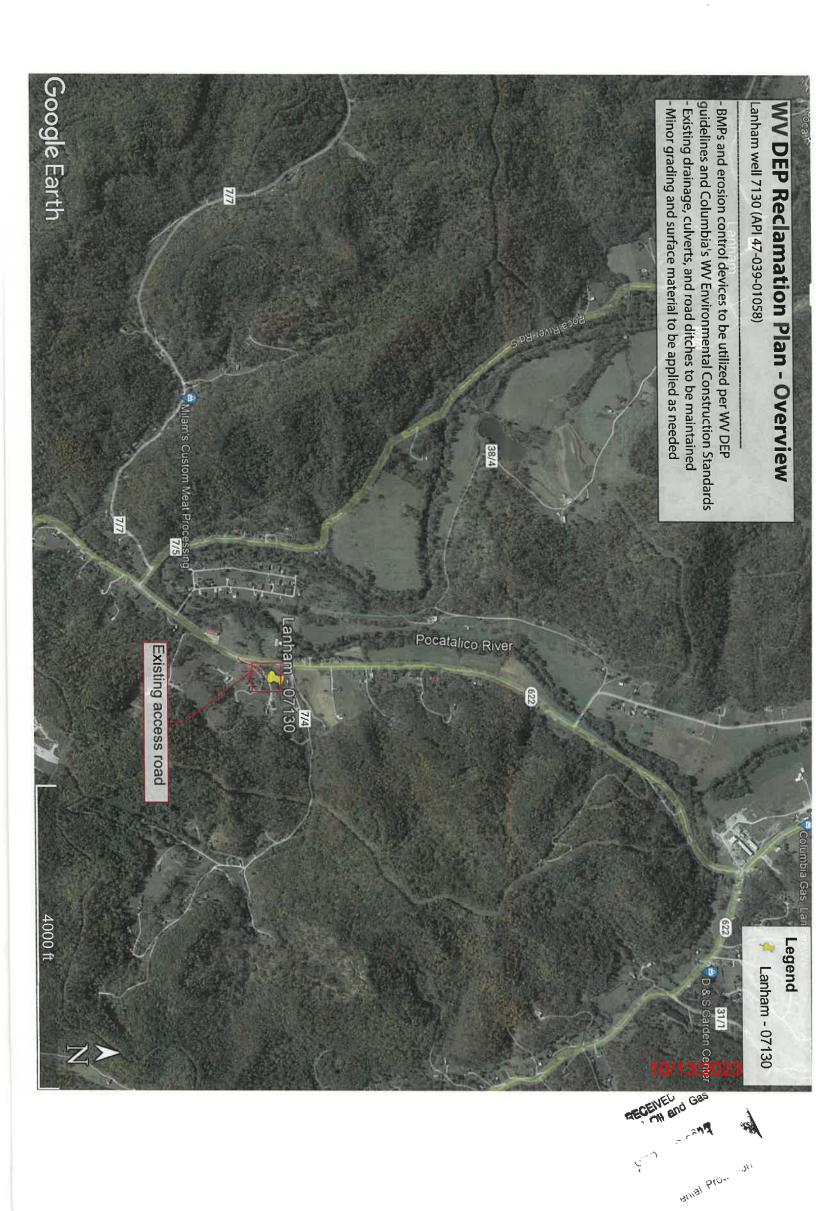
Operator Name: Columbia Gas Transmission, LLC	
Watershed (HUC 10): Dutch Fork of Pocatalico River	Quad: Pocatalico, WV
Farm Name: Gladys Harbert	
List the procedures used for the treatment and discharge of fluids. In groundwater.	clude a list of all operations that could contaminate the
No fluids planned to be discharged. No fertilizer will be will be stored on site, but located within secondary corconstruction equipment, well treatment fluids, and procource of contamination to groundwater. Drilling and accumulated fluids to be hauled off site to UIC disposa	ntainment. Accidental spills from duced well fluids are the only possible flowback fluids to be stored in tanks. All
2. Describe procedures and equipment used to protect groundwater qua	lity from the list of potential contaminant sources above
All construction and well servicing equipment will be many Tanks to be monitored daily for leaks. Spill kits will be	•
3. List the closest water body, distance to closest water body, and d discharge area.	istance from closest Well Head Protection Area to the
Dutch Fork is at a distance of 0.02 miles N.	
The Rippling Waters Campground WV9918017 is the distance of 9.66 miles NW from discharge area.	closest Well Head Protection Area at a
4. Summarize all activities at your facility that are already regulated for	r groundwater protection.
N/A	
	SECEIVED Gas
	Office of Oil and Gas
	W Departmental Protection
5. Discuss any existing groundwater quality data for your facility or an	adjacent property. Env.
×	

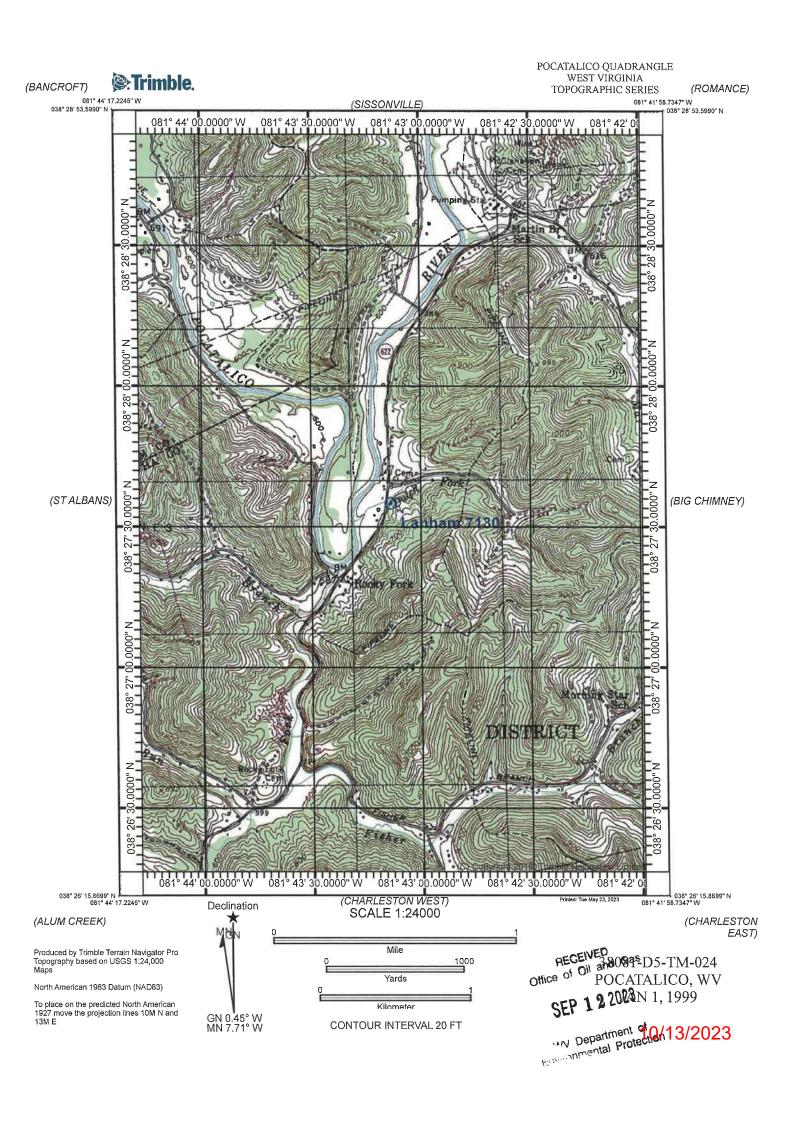
WW-9- GPP Rev. 5/16	
1	
N/A	

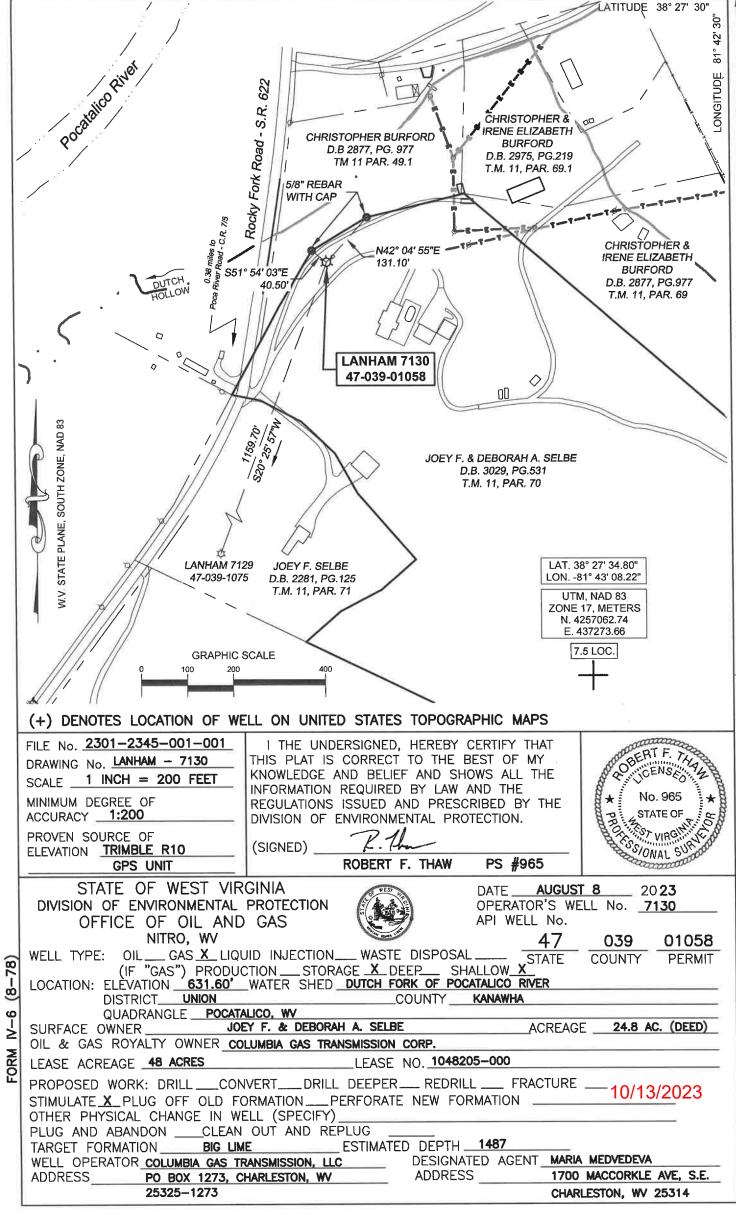
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API Number 47 -	039	_ 01058	
Operator's Well No	, Lanham	ı 7130	

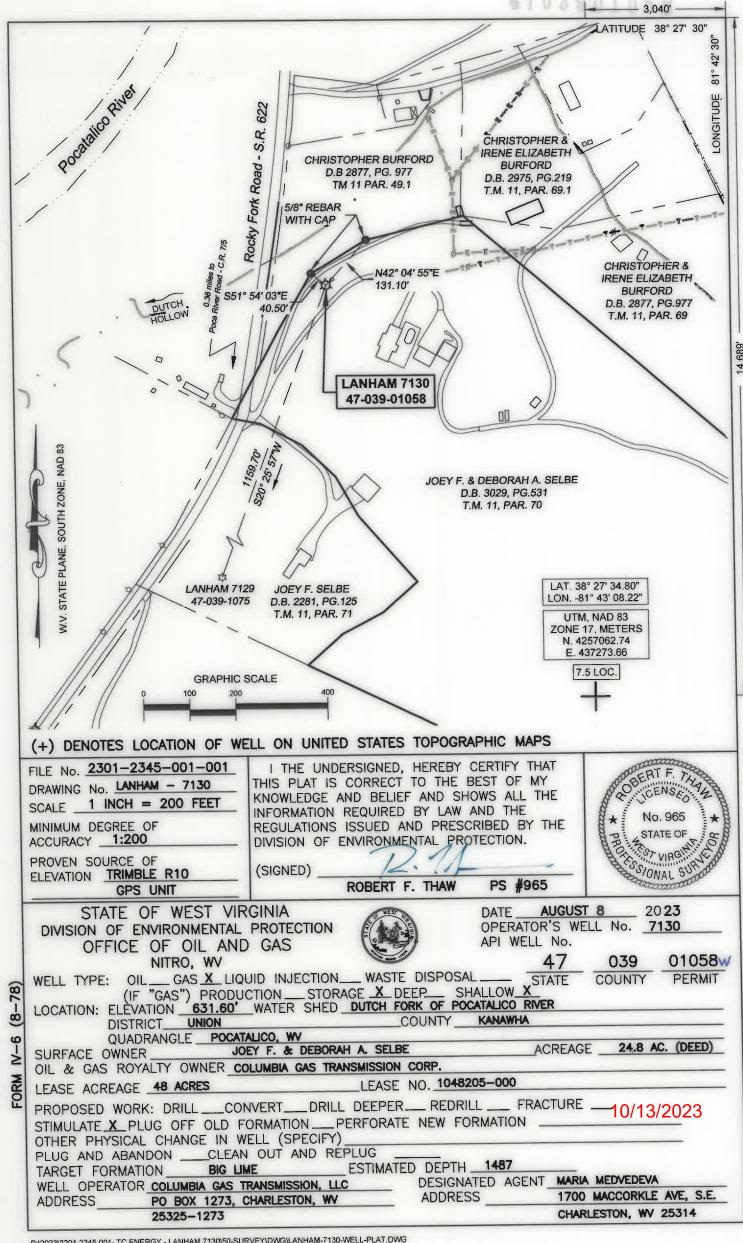
N/A
Provide a statement that no waste material will be used for deicing or fill material on the property.
No waste material will be used for deicing or fill material on the property.
Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.
During routine tailgate and JSA 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. Fuel, oil, and lubricants will be stored on site, but located within secondary containment. Spills from construction equipment, well treatment fluids, and produced well fluids are the only possible source of contamination to groundwater.
All construction and well servicing equipment will be monitored and inspected daily for leaks or spills. Office of oil and Gas of the contract of the contrac
Signature: ON 27/1013 Date: ON 27/1013 Department of Environmental Protection











Columbia Gas Transmission, LLC

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



September 11, 2023

WV DEP – Office of Oil & Gas 601 57th Street, SE Charleston, WV 25304-2345 ∠k# 4/3070 \$ 900.00 \$ |1/23

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

Lanham 7130 (API 47-039-01058)

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

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

If you have questions, feel free to call.

Regards,

Maria Medvedeva Senior Wells Engineer Well Engineering & Technology Columbia Gas Transmission, LLC Mob: 304-410-4313 maria_medvedeva@tcenergy.com

Office of Oil and Gas
SEP 1 2 2023

WV Departmen: 07
Environmental Protection

www.tcenergy.com