

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 12076 47-039-02811-00-00

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: 12076

Farm Name: HARLESS, F. H.

U.S. WELL NUMBER: 47-039-02811-00-00

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

Promoting a healthy environment.

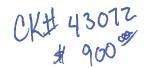
PERMIT CONDITIONS

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. Failure to adhere to the specified permit conditions may result in enforcement action.

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.
- 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.

WW - 2B (Rev. 8/10)



CK# 43072 4703902811W

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

1) Well Operat	or: Colur	nbia Gas	Transmission, LL	C 307032	Kanawha	Elk	Blue Creek, WV		
				Operator ID	County	District	Quadrangle		
2) Operator's V	2) Operator's Well Number: Coco A 12076 3) Elevation: 999.8'								
4) Well Type: (4) Well Type: (a) Oil or Gas X								
((b) If Gas: Production / Underground Storage X								
	Deep X / Shallow								
6) Proposed To7) Approximate	5) Proposed Target Formation(s): Oriskany Proposed Target Depth: 5322 6) Proposed Total Depth: 5322 Feet Formation at Proposed Total Depth: Oriskany 7) Approximate fresh water strata depths: none reported by driller 8) Approximate salt water depths: Salt Sand reported from 885 - 1410' by driller. Water at 940'								
9) Approximate	e coal sea	m depth	S: Coal reported 9	5' - 98'					
10) Approxima	te void de	pths,(co	al, Karst, other):	None reported	by driller		s		
11) Does land	contain co	oal seam	s tributary to acti	ive mine? N	0				
12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed) Snub tubing out of the well, obtain HRVRT / Temperature / Sonan logs, perform coil tubing cleanout and 2000 gal 15% /									
acid stimulation, si	acid stimulation, snug tubing back in the well.								
13)	13) CASING AND TUBING PROGRAM * existing 4-5-23								
· .	SPECIFIC			FOOTAGE	INTERVALS	CEMEN	VT		
	<u>Size</u>	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu.	Ft.)		
Conductor									
Fresh Water	13-3/8 *	H-40	48	147	147	200 s	x		
Coal	9-5/8 *	J-55	32	2038	2038	700 s	x		
Production	7 *	N-80	26	31	31				
Production	7 *	N-80	23	5245	5214	200 s	X		
Tubing	2-3/8	J-55	4.6	5244	5244	R	ECEIVED		
Liners							ECEIVED of Oil and Gas		
Packers: Kind	d:		X				1 8 2023		
Size						Environm	epartment of ental Protection		
Deb	ths Set _			_					

Coco A 12076 (API 47-039-02811) - CTCO and Acid Treatment

API 3K wellhead, 7" FS x 9-5/8" support

 $7^{\prime\prime}$ 26# N-80 LTC csg to 31' / $7^{\prime\prime}$ 23# N-80 8rd csg set at 5245'

Burst: 6340 psig new (5072 psig assuming 80% safety factor)

Capacity: $[5214 \text{ ft } \times 1.6535 \text{ gal/ft}] + [31 \text{ ft } \times 1.6070 \text{ gal/ft}] = 8,670.94 \text{ gals; } \times 0.0394 \text{ bbl/ft} = 341.64 \text{ bbls}$ Openhole

Capacity 8-3/4" hole: 77 ft x 0.074376 bbl/ft = 5.73 bbls

Total Capacity: 347.4 bbls
Oriskany: 5260 – 5300

TD:

5322

Fluids Needed

2000 gals 15% HCl acid** treated with corrosion inhibitor, iron control/sequestering agent, and surfactant. Biocide, clay stabilizer, and surfactant to treat +/- 700 bbls fresh water. Liquid caustic on location in case need to neutralize flowback fluids.

* Prior to acid treatment verify that the 7" \times 9-5/8" annuli is full, top off with fresh water treated with biocide, corrosion inhibitor, and clay stabilizer as needed (capacity above 7" TOC is ~134 bbls).

CTCO Procedure

- 1. MIRU 1.75" CTU.
- 2. Load CT with treated fresh water (TFW) and pressure test CT and BOPs to 2000 psig.
 - * maximum pressure on wellhead components 2500 psig
- 3. Open well and RIH under static conditions.
- 4. At 5050' begin jetting with foamed TFW. Jet to TD and cycle up and down across interval 5200' TD.
- 5. Begin 15% HCl acid foamed to 50Q and cycle up and down across interval 5200′ TD until 1000 gals acid gone.
- 6. Chase acid with 40 bbls TFW foamed to 50Q to neutralize wellbore / flowback fluids.
- 7. Flow well while POOH to 4900'. Flow until returns are relatively dry.
- 8. CTU on stand-by until after acid treatment to unload wellbore if needed.

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SEP 18 2023

Acid Treatment

WV Department of Environmental Protection

1. RU to perform acid treatment down casing as follows:

•	1000 gals 15% HCl acid	4-6 BPM	Max Treating Press = 2500 psig
=	80 bbls bbls TFW	4-6 BPM	Max Treating Press = 2000 psig
•	80 bbls bbls TFW	4-6 BPM	Max Treating Press = 1500 psig
-	80 bbls bbls TFW	4-6 BPM	Max Treating Press = 1000 psig
H	60 bbls TFW	2-4 BPM	Max Treating Press = 1000 psig
		 SHUT DOWN F 	OR 30 minutes TO ALLOW ACID TO SOAK
-	20 bbls TFW	2-3 BPM	Max Treating Press = 1000 psig

■ SHUT DOWN FOR 30 minutes TO ALLOW ACID TO SOAK

■ 30 bbls TFW 2-3 BPM Max Treating Press = 1000 psig

- 2. Flow well. If well quits flowing, RBIH with CT unloading fluid with N2.
- 3. RDMO and release CTU / acid equipment.

WELL JOB PLAN STS Well Engineering & Technology						PAGE 1	DATE J	OB PREPARED: 4/6/2023	
Objective: Baseline Integrity Project							LAST F	PROFILE UPDATE:	
TITLE: Snub tubing	, log, CTCO,						WORK	TYPE:	Well Integrity
FIELD: Coco A			WELL ID:				LE	ASE#:	48281
STATE: WV			SHL (Lat/ Long)			-81.447868		API:	47-039-02811
DIST/TWP: Elk			BHL (Lat/Long)	38.397269		-81.447868		CNTY:	Kanawaha
EXISTING TUBULAR	OD	WEIGHT		-		TH (ft)			X52AW12076
CONFIGURATION	(inches)	(PPF)	GRADE	THREAD	TOP	воттом	FORMATION:	refer to	MISC INFORMATION section
Conductor	10.070	40.0	11.40	2.1		117	PAY:	•	ELEVATIONS
Surface	13 3/8	48.0	H-40	8rd	0	147	TD: 532	2	TMG:
Intermediate	9 5/8	32.0	J-55	8rd	0	2038	PBTD:		KB-RF:
Production	7	26.0	N-80	LTC	0	31	KB-GL:	DEDTH	GL:
Production	7	23.0	N-80	8rd	31 0	5245	CSG	DEPTH	WELLBORE SCHEMATIC
Tubing	2.375 *	4.6	J-55	10rd NUE	U	5244	-		Defende III Mallhous Die sussus!
Perforations	Open Hole		del F 1.81" SN rai head - refurbished			1987. 9	-		Refer to "Wellbore Diagram"
Wellhead	5/8 x 7 x 2 3	-		a with new sill	os anu seais in	1907. 9			tab
	3/6 X / X Z 3.	70, 2 370 tub	Refer to "Wel	Iboro Dinaro	mil tob		-		
D.U. COLUDMENT	l		Refer to Wei		m tab	DEDTH (#1)	-		
D.H. EQUIPMENT	NED INFO.	Unner		TYPE		DEPTH (ft)	1		
PAC	KER INFO:	Upper					-		
		Lower					4		
NIDDI E DOC	SELLE INCO-	Hanes I					1		
NIPPLE PRO	TILE INFU:	Upper					1		
		Lower					1		
	SSSV INFO:	1					1		
CEMENT INFO	SSSV INFO.					Calc TOC (ft)	-		
13 3/8 Cmt'd to surfa	200 w/ 200 av	noat				0	4		
			0 sx Neat. 35th joi	int has emt he	ekot	0	-		
			per, estimated at		iskei	3665	+		
/ Cilita W/ 200	SX Neat. CDL	. 100 13 000	per, estimated at	4014		2000	1		
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MISC INFORMATION							7		
							1		
REFER TO WELL SU	IMMARY RI	PT. WELLE	ORE DIAGRAI	M. ELOG. E	TC.	(see			
REFER TO WELL SUMMARY RPT, WELLBORE DIAGRAM, ELOG, ETC. (see spreadsheet tabs below)									
		Spread	ioneet tabo bei	J.,					
Kill Fluid Calculation			* Note that kill fluid	calculation tab	e am hidden		1		1
Maximum calculated bo	ttom-hole pre	ecure (for re			osig * input				4
* Maximum storage field					osig * input				1
Waximum storage nero	surface pres	ssure (INAOF	J.	1300	osig input				
Well TD:				5322	t TVD * input				
Top of storage zone (Or	iskany).				TTVD * input				
Calculated maximum Bl		ton of zone.			,	Kill Fluid (TOZ)	1		
Kill fluid density at top o		150	psi OB			Kill Fluid (TOZ)			
Kill Itala delisity at top o	2011e @.	150	lbai OB	0.51	opg output	101111010 (102)			
Proposed depth of BP (n/a):			5260	t TVD * input				
Calculated maximum B	iva). Hinressure at	depth of BP				Kill Fluid (BP)			
Kill fluid density at depth			psi OB			t Kill Fluid (BP)	1		
This mana definitely at depth			140.02		,	, ,			
Reg	uired minimi	ım kill fluid	density:	8.6	ppg * greate	er of the two			Office of GUED
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							1		and Gas
Current AOF		27.823	MCF/D						SEP 18 2023
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	20	024	DT. APPLIED:	,	ISSUED:	·	1	4-7	
PREPARED BY:			REVIEWED BY:				APPROVED	Reco	verable Signature
	Maria M	edvedeva		-	James A	mos	1		= = '
PREP DATE:		(0.0.0.5					1	- X -	ent Criser
	4/6/	2023						→ Br	ent Criser
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WELL JOB PLAN	STS Well Engineer	ring & Techno	logy	PAGE 2	DATE JOB PREPARED:	4/6/2023
Objective: Baseline Integrity Project					LAST PROFILE UPDATE:	
TITLE: Snub tubing, log, CTCC), rerun tubing			WORK TYPE:	Well Integrity	= = =
FIELD: Coco A	WELL:	12076				
STAT: WV	SHL (Lat/Long):	38.397269	-81.447868	API:	47-039-02811	
TWP: Elk	BHL (Lat/Long):	38.397269	-81.447868	CNTY:	Kanawaha	
	* ***	PRO	CEDURE			

NOTE: Historic annulus pressure cycling 800-860 psi. Gas samples indicate storage sourced gas composition. Wellhead seals pressure tested good and annulus was killed with 8.7 ppg KWF at the end of 2022 successfully.

- Obtain State well work 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.
- Pump 20 gals methanol and 20 bbls fresh water down tubing to verify it's open.
- Flow well up casing to verify no bridges and dry wellbore.
- MIRU TTS slickline unit. RIH to find bottom of tubing. Install TTS packoff plug #1 in bottom joint of tubing. Perform negative pressure test in stages 12 to 0 psig. Install TTS packoff plug #2. Perform negative pressure test in stages to 0 psig.
- Remove tbg valve and bonnet. Spray / pour lubricant around top of tubing mandrel and around lock-down pins. Clean mandrel lift threads and verify thread profile. NU 7-1/16" 3M gate valve, Cameron double BOP (blind-shear in bottom / 2-3/8" pipes in top), and annular
- MIRU stand-alone snubbing stack. Perform low (250 psig) and high (2300 psig) pressure test on each BOP component, including FOSV (2), choke 14 line, blow-off line, and equalization line.
- PU pulling joint, screw into tubing hanger, grab bite on tubing with snubbing slips, equalize pressure across hanger, back out mandrel hold-down pins, and unseat hanger.
- Strip / snub tubing out of hole. On last 3 joints RIH 60 ft every joint with weight on masonry twine to verify depth of upper RBP. Last joint, stop 16 connection just below annular, close gate valve and lower snubbing pipe rams, and bleed pressure to verify last joint. Note that there will likely be pressure inside tubing between the two RBPs.
- 17 Evaluate tubing condition, for tubing to be rerun back in the well.
- MIRU Baker Atlas Logging. Run guage ring and HRVRT casing inspection logs, GR-N-DT and Sonan diagnostic logs. 18 Request 1-day turnaround on HRVRT analysis. Condition of 7" casing will determine next steps. Consult with WE&T engineer before proceeding.
- MIRU 1.75" CTU. 19
- Flow well. If well wont flow, unload with nitrogen. 20
- 21 Perform CTCO and 2000 gallons of 15% HCL treatment.
- RDMO CTU.
- 23 Flow well to recover treatment fluids.
- Perform final 45-min flowback test thru 3/4" choke. 24
- Snub tubing back in well with wireline re-entry guide, Otis XN and Otis X seating nipples on bottom. Do not run tubing into openhole.
- Land tubing and lock-down mandrel. RDMO snubbing unit.
- 27 Reconnect well line.
- 28 MIRU TTS slickline unit. Pressure tubing. Run gauge ring and pull SN plugs. RDMO slickline unit.
- Notify WET Project Support that well is back in-service. 29
- Reclaim R&L.
- Commission well by completing, processing, and retain for records the Wellsite Review and Turnover Form
- Notify REG that well is ready for storage service.

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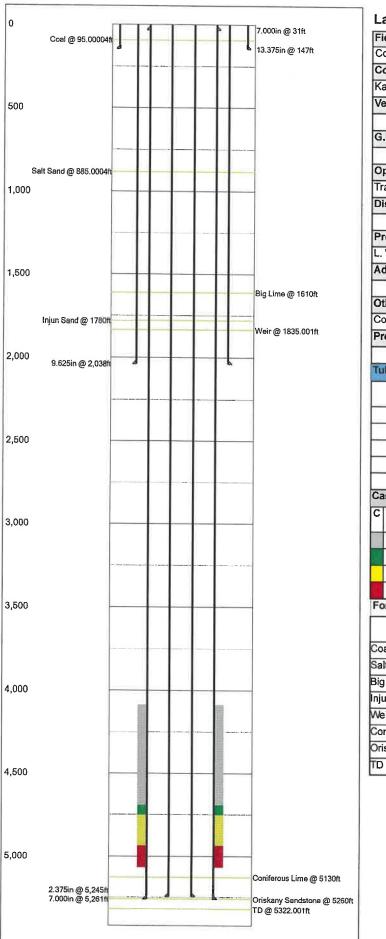
SEP 18 2023

WV Department of Environmental Protection

PREPARED BY:	Maria Medvedeva	REVIEWED BY:	James Amos	APPROVED:	Brent Criser
PREP DATE:	4/6/2023				

Aug Jobla 95-23

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SEP 18 2023

WV Department of Environmental Protection

www.WellShadow.com

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12076

(Rev.8-76)			_	WEI	L LOG SUA	MARY					
VELL NO.	F	IELD					ORK ST			COMPLETE	
12076	L L	Blue Creek	SARE E	TED SHUT-II	CATE		2-14-		7-14-		
2-14-78	RTED	2-28-78	JMP LE		28-78		11.74	22	PLUGGED BAC	E TO	
2-14-78	Bit Gauge (124	102	_		1 7000	TION REC	
HOLE SIZE	From - To		-	175	12%	8-3	14	6-1/8	FORMATIO		
CASING	Size (0, D.)			10.040	0.540	1		0.010	Clay	0	10
&	Weight/For			13-3/8	9-5/8	7	-	2-3/8	Sand	95	98
TUBING	Steel Grade		-+	48 H-40	J-55	23 N-8	0	J-55	Coal	98	123
(All Maraces	Coupling 1:			Long	Short	Sho		NV	Sand Sand	123	126
mante Lasa Threads)	Setting Dep	th		147	2028	523		5244	Sand	126	136
	Left in Hole			147	2028	523		5244	Shale	136	885
						1			Sand	885	1410
	No. of Sack	1	_	200	700	200			Shale	1.410	1525
CEMENT	Туре		_	Neac	Poz-Ne			-	Sand	1525	1610
RECORD	Weight (# G		-	15.6	15.6	15.			BigLime	1610	1780
	Plug Down		-1	Yes	Yes	Yes		-	Injun	1780	1835
	Plug Down	Pressure			1000	100	0		Weir	1835	2043
	Manufacture	et.	- 1					_	Lime	2043 5130	5260
DOWN HOLE	Турь				GS - FC	GS	- FC	_	Oriskany	5260	5300
EQUIPMENT	Size			_	9-5/8	7			- Agrany	12440	12200
	Setting Dep	th .	-	_	2038-197		-5224			1	1
			- 1						1		
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PERFOR-	To (feet)										
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	Falia				1 78						
A. O.	CDITE		_								

RECEIVED Office of Oil and Gas

SEP 18 2023

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

1). Date: 09/07/2023

2.) Operator's Well Number

Coco A 12076

State

County Permit

039

3.) API Well No.:

47-

02811

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

Surface Ow	ner(s) to be served:	5) (a) Coal Op	erator	
(a) Name	Michael L. Thomas	Name	Not operated	
Address	PO Box 747	Address	· ·	
	Pinch WV 25156			
(b) Name	Leonard Thomas	(b) Coal C	wner(s) with Declaration	
Address	247 Homeplace Ln	Name	Not operated	
dolla per,	Elkview, WV 25071	— Address	- 1401 Operated	
in Michael Thom	US'S request		-	
(c) Name	(0)00000	Name	-	
Address		Address	-	
			-	
6) Inspector	Terry Urban	(c) Coal Le	essee with Declaration	***
Address	PO Box 1207	Name	Not operated	
	Clendenin, WV 25045	Address	Not operated	
Telephone	304-549-5915			
	TO THE PERSONS N	AMED ABOVE T	AKE NOTICE THAT:	
Included is the	ne lease or leases or other continuin	g contract or contr	acts by which I hold the right	to extract oil and gas
<u>0R</u>				_
X Included is the second of	ne information required by Chapter 2	22, Article 6, Sectio	n 8(d) of the Code of West V	irginia (see page 2)
i certity t	nat as required under Chapter 22-	6 of the West Vira	inia Code I have served cor	nies of this notice and
application, a loc	alion piat, and accompanying docur	nents pages 1 thro	ugh on the above named	f parties by:
	Personal Service (Affidavit att.			
X	Certified Mail (Postmarked po	stal receipt attache	d)	
l have re	Publication (Notice of Publicat	ion attached)	1	
issued under this	ad and understand Chapter 22-6 a	nd 35 CSR 4, and	agree to the terms and co	onditions of any permit
	inder penalty of law that I have per	reonally avaminad	and am familiar with the infe	ama ati an andan itta d
this application for	orm and all attachments, and that t	pased on my inquir	y of those individuals immo	ormation submitted on
optaining the info	rmation, I believe that the informatio	on is true, accurate	and complete	
I am awa	re that there are significant penaltie	es for submitting fa	se information, including the	possibility of fine and
imprisonment.			/	$M_{\rm h}$ Λ
OFF OFF	Well Operato	or <u>Columbia Ga</u>	s Transmission, LLC / /	William G
	ARY PUBLIC D)	/: Maria Medve	deva / //	uller
STATE OF	WEST VIRGINIA Its	Senior Wells	Engineer Storage Techi	ical Services
284 Ev	orgreen Hills Rd. Address	: 1700 MacCo	kle Ave SE	
My Commissio	Expires June 14, 2028	Charleston W	/V 25314-1273	
		304-410-431		
Subscribed and s	worn before me this 7th day		deva@tcenergv.com	
Substitute and	day (of Septe	mper 20	23
_ Clan	II.	eniel & E	Notary Public	RECEIVED Office of Öil and Gas
My Commission I	xpires June 14.	2028	- Talany i dollo	O C n
Oil and Gas Privacy	Notice			SEP 18 2023

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory functs. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to configuration 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 deprivacyofficer@wv.gov

Columbia Gas Transmission, LLC

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



August 31, 2023

Michael L. Thomas PO Box 747 Pinch, WV 25156

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection - Office of Oil and Gas, to work on an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Coco A 12076 (API 47-039-02811).

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

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our Pinch W 25156 **9**4 事务。因后 dra Services & Fees (check box 0005 Return Receipt (electronic)
Certified Mail Restricted Delivery \$0,00 \$0,00 Adult Signature Required \$0,00 Adult Signature Restricted Delivery 2470 \$9, AS Fees \$17.55 7025 CA 12016

SENDER: COMPLETE THIS SECTION
Complete items 1, 2, and 3.
Print your name and address on the reverse
so that we can return the card to you.
Attach this card to the back of the mailpiece,
or on the front if space permits.
Article Addressed to:
Minhael Thomas
PO DUX 747
PU BUX 141
Ds. 1 11/05/51
Pinch, WV 25156
at m meeten emer tennennte ton dm in 21 m fold mitt am ft il Milt
9590 9402 7630 2122 5682 55

COMPLETE THIS SECTION ON DELIVERY ☐ Addressee C. Date of Delivery violice Thomas D. Is delivery address different from item If YES, enter delivery address below: □ No 25 뗤 3. Service Type

☐ Adult Signature
☐ Adult Signature Restu
☐ Certified Mail® ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery Certified Mall Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Insured Mall

www.tcenergy.com

2. Article Number (Transfer from service label) 7022 2410 0002 6396 3041 PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Retirn Receipt

Columbia Gas Transmission, LLC

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



September 7th, 2023

Leonard Thomas 247 Homeplace Ln Elkview, WV 25071

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection - Office of Oil and Gas, to work on an existing underground natural gas storage well located on property line between you and your brother Michael Thomas. Mr. Michael Thomas has been notified separately. As reference, the field and well ID is Coco A 12076 (API 47-039-02811).

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 website at w Elkviews WV 25071 **6396** ertified Mail Fee 0726 02 RECEIVED Office of Oil and Gas Return Receipt (electronic) \$0.00 Maria Medvedeva Certified Mail Restricted De \$0.00 Here Senior Wells Engineer Adult Signature Required SEP 18 2023 2470 Well Engineering & Technology \$9.65 WV Department of 09/07/2023 Environmental Protection Columbia Gas Transmission, LLC Total Postage and Fees \$17.55 City, State, ZIP+4 CA 12076 COMPLETE THIS SECTION ON DELIVER) 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. C. Date of Delivery Attach this card to the back of the mailpiece, 12-3. or on the front if space permits. ☐ Yes 1. Article Addressed to: Leonard Monas 247 Homeplace Ln nt from item 1? ☐ No SEP 12 2023 Elkview, WV 250+1 Service Type 9590 9402 7630 2122 5682 31 www.tcenergy.com Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail 7022 2410 0002 6396 3065 Insured Mali Restricted Delivery (over \$500) PS Form 3811 .hdv 2020 PSN 7530-02-000-9053 Domestic Return Receipt

WW-2A Surface Waiver (4/16)

SURFACE OWNER WAIVER

County

Kanawha

Operator

Columbia Gas Transmission LLC

Operator well number

Coco A 12076

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

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 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.

<u>VOLUNTARY STATEMENT OF NO OBJECTION</u>

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 CORPORATION, ETC.					
	Date	Company Name					
Signature		Ву		RECEIVED			
		Its		Office of Oil and Gas	Date		
- Division				SEP 18 2023			
Print Name			Signature	WV Department of Environmental Protection	Date		

COAL OPERATO	R, OWNER, OR LESSEE	
County Kanawha		* coal not operated
Operator Columbia Gas Transmission LLC	Operator's Well Number	r Coco A 12076
INSTRUCTIONS TO CO	OAL OPERATOR, OWNE	ER, OR LESSEE
To the coal operator, owner, or les any objection you wish to make or are req with the Chief of the Office of Oil and Gas by the Office. Mail objections to:	uired to make by WV Coo	de 22-6-15, 16 or 17, must be filed
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654		
	WAIVER	
The undersigned coal operatorlocation has examined this proposed well location, the well location has been added work proposed to be done at this location, requirements of the West Virginia Code are	location. If a mine map e I to the mine map. The u provided, the well operat	exists which covers the area of well indersigned has no objection to the tor has complied with all applicable
FOR EXECUTION BY A NATURAL PERSON	FOR EXI	ECUTION BY A CORPORATION, ETC.
Date	Company Name	
Signature	By Its	Date

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Signature

Date

SEP 18 2023

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

F.H. Harless et al

United Fuel Gas Company

Storage Lease -

124 / 451

1048281-000

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

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SEP 18 2023

WV Department of

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 necessary and further affirms that all needed permits/approvals should be ac quired from the appr opriate aut hority before the affected activity is initiated.

Well Operator:

Maria Medvedeva

By:Its:

Senior Wells Engineer Storage Technical Service

Columbia Gas Transmission, LLC

10/13/2023

NIA

WW-2B1 (5-12) Well No. Coco A 12076

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 Conti	
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.

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SEP 18 2023

WW-9 (5/16)

API Number 47 -	039	_ 02811	
Operator's Well No	. Coco A	12076	- 4

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) Indian Creek of Elk River	Quadrangle Blue Creek, WV
Do you anticipate using more than 5,000 bbls of water to complete	
Will a pit be used? Yes ☐ No ✓	
If so, please describe anticipated pit waste: N/A	9
Will a synthetic liner be used in the pit? Yes N	If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a c	*
Underground Injection (UIC Permit Nu Reuse (at API Number	mber_34-167-23862
Off Site Disposal (Supply form WW-9:	for disposal location)
Other (Explain Mud Master 64054; Reser	ve Environmental Services (WMGR 123SW008)
Appalachian Water Se	ervices (WMGR 123SW001)
Will closed loop systembe used? If so, describe: yes - steel flow li	ne to tanks
Drilling medium anticipated for this well (vertical and horizontal)?	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, pol	ymer, starch, CaCO3, KCI, HCI
Drill cuttings disposal method? Leave in pit, landfill, removed offs	ite, etc. N/A
-If left in pit and plan to solidify what medium will be use	d? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? To be managed by	Waste Management and US Ecology for disposal at permitted landfill
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided wit where it was properly disposed.	
on April 1, 2016, by the Office of Oil and Gas of the West Virgini provisions of the permit are enforceable by law. Violations of any or regulation can lead to enforcement action. I certify under penalty of law that I have personally exapplication form and all attachments thereto and that, based on my	term or condition of the general permit and/or other applicable law amined and am familiar with the information submitted on this inquiry of those individuals immediately responsible for obtaining and complete. I am aware that there are significant penalties for prisonment. Office of Oil and Gas SEP 18 2023
Kufu all	Notan Notan TC/ENERGY/COLUMBIA GAS TRANSMISSIO
My commission expires 6/30/26	1700 MACCORKLE AVE., SE LAND DEPT Charleston WY 25325 My Commission Expires June 30, 2026

Operator's Well No. Coco A 12076

	atment: Acres Disturbed < 1.0	Prevegetation pH 6-7	
Lime 2	Tons/acre or to correct to	р _{рн 7-8}	
Fertilizer type 10	-10-10		
Fertilizer amount	600	lbs/acre	
Mulch_ hay or st	traw @ 2	ons/acre	
		Seed Mixtures	
Т	^C 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
	of the land application area. olved 7.5' topographic sheet.	de water volume, include dimensions (L, W, D) of the pit, a	nd dimensio
hotocopied section of involution of the comments.	of the land application area. olved 7.5' topographic sheet.		nd dimensio
lan Approved by:	of the land application area. olved 7.5' topographic sheet.		nd dimensio
lan Approved by:	of the land application area. olved 7.5' topographic sheet.		nd dimensio
rlan Approved by:	of the land application area. olved 7.5' topographic sheet.		nd dimensio
lan Approved by:	of the land application area. olved 7.5' topographic sheet.	Date: P-5-23 Office	RECEIVED e of Oil and (
lan Approved by:	of the land application area. olved 7.5' topographic sheet.	Date: P-5-23 Office	PEOP

WW-9- GPP Rev. 5/16 Page 2 of 2
API Number 47 - 039 - 02811
Operator's Well No. Coco A 12076

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 provide direction on how to prevent groundwater contamination.	procedures shall
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, l secondary containment. Spills from construction equipment, well treatment fluids well fluids are the only possible source of contamination to groundwater.	
All construction and well servicing equipment will be monitored and inspected daspills.	lily for leaks or
Signature:	Dron
Date: 08/3/1023	RECEIVED Office of Öil and (
	SEP 18 202

WW-9- GPP Rev. 5/16 NA

	Page	l	of Z
API Number 47	- 039		02811
Operator's Well	No. Coco	A 1207	6

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

Op	erator Name: Columbia Gas Transmission, LLC	
Wa	atershed (HUC 10): Indian Creek of Elk River	Quad: Blue Creek, WV
Far	m Name: L. W. Harless, Et Al	
1.	List the procedures used for the treatment and discharge of figroundwater.	fluids. Include a list of all operations that could contaminate the

No fluids planned to be discharged. No fertilizer will be stored on site. Fuel, oil, and lubricants will be stored on site, but located within secondary containment. Accidental spills from construction equipment, well treatment fluids, and produced well fluids are the only possible source of contamination to groundwater. Drilling and flowback fluids to be stored in tanks. All accumulated fluids to be hauled off site to UIC disposal facility.

	source of contamination to groundwater. Drilling and flowback fluids to be stored in tanks. All accumulated fluids to be hauled off site to UIC disposal facility.
2	2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.
	All construction and well servicing equipment will be monitored and inspected daily for leaks. Tanks to be monitored daily for leaks. Spill kits will be on site.
3	3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.
	Indian Creek is at a distance of 0.41 miles SW.

The Trail Kitchen WV9908037 is the closest Well Head Protection Area at a distance of 11 miles E from discharge area.

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

N/A	
	RECEIVED Office of Öil and Gas
	SEP 18 2023
	140.0

WV Department of Environmental Protection

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

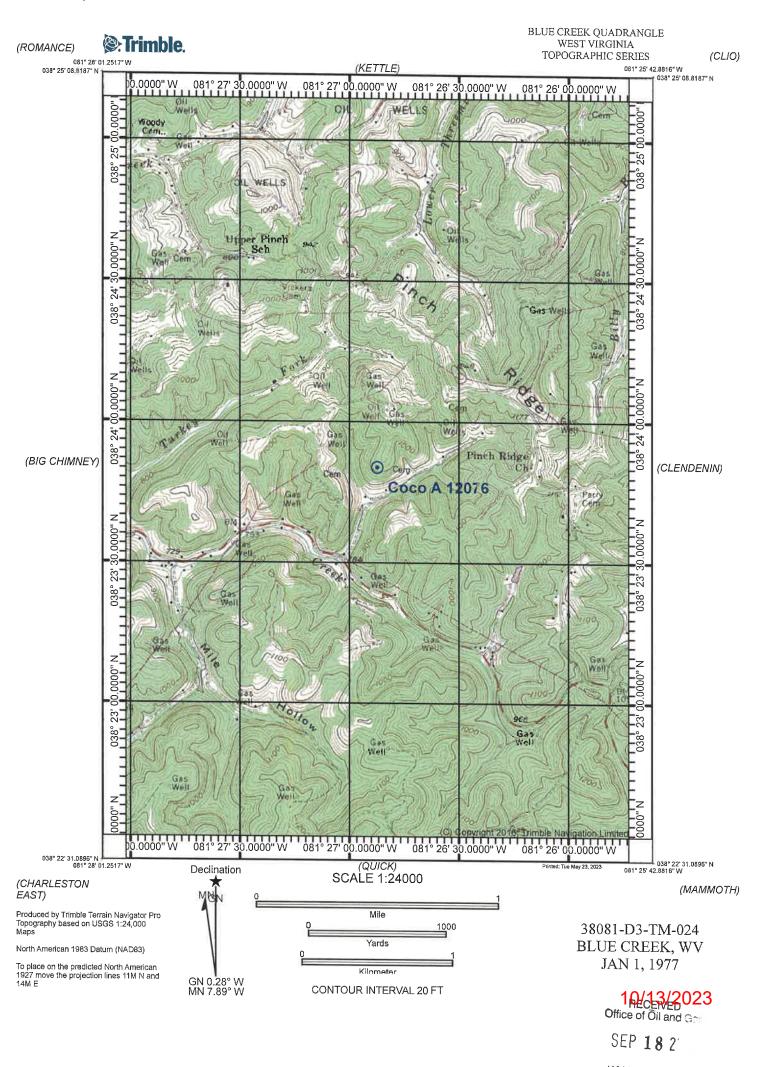


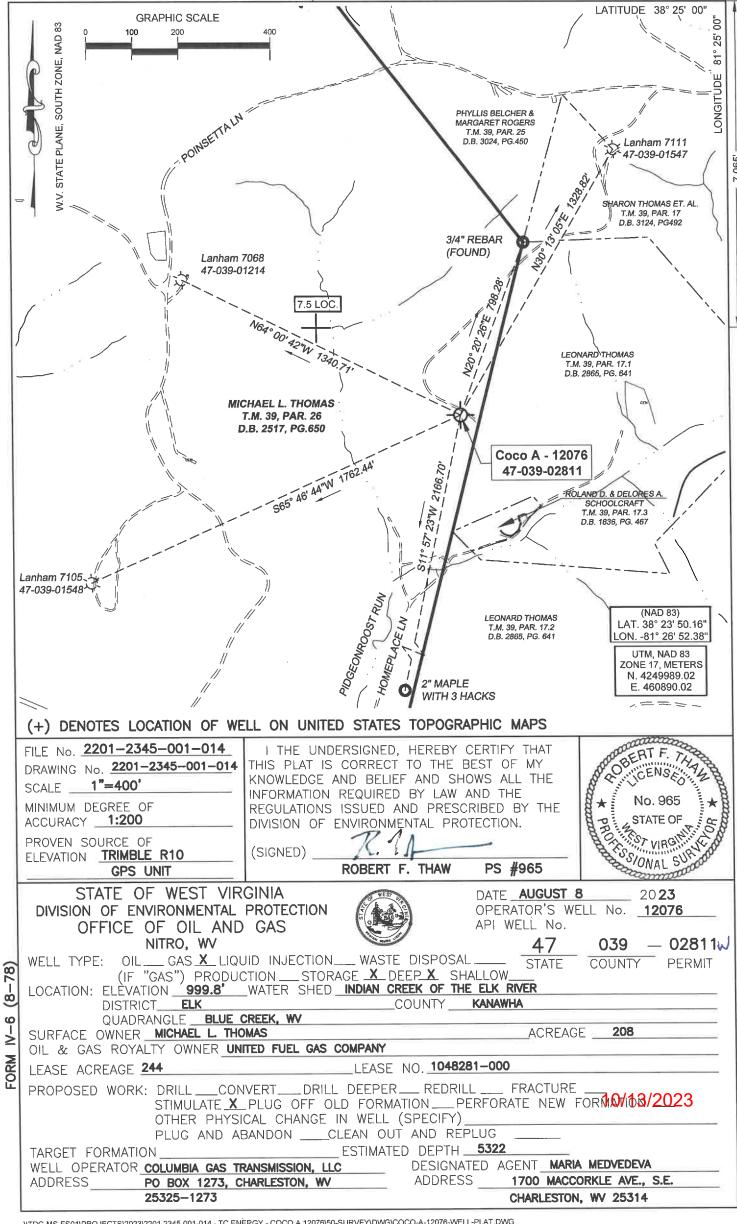
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SEP 18 2023
WV Department of Environmental Protection



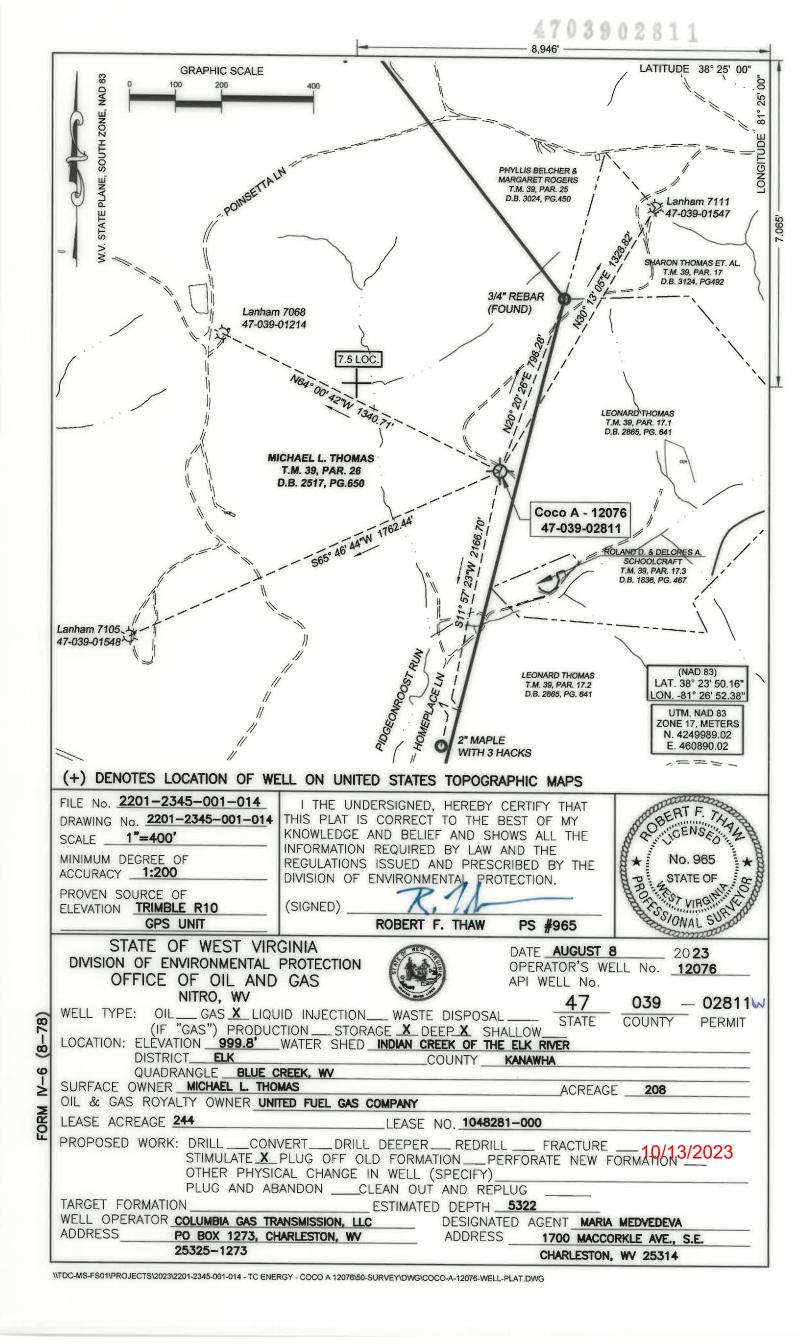
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ISEP 1 8 2023





8,946' 47039028



Columbia Gas Transmission, LLC

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



September 15, 2023

WV DEP – Office of Oil & Gas 601 57th Street, SE Charleston, WV 25304-2345 CK#43077

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

Coco A 12076 (API 47-039-02811)

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

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

If you have questions, feel free to call.

Regards,

Maria Medvedeva Senior Wells Engineer

Well Engineering & Technology Columbia Gas Transmission, LLC

Mob: 304-410-4313

maria_medvedeva@tcenergy.com

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SEP 18 2023

WV Department of Environmental Protection

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