



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

Monday, September 23, 2024
WELL WORK PERMIT
Vertical / Re-Work

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for 7354
47-039-01976-00-00

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

A blue ink signature of James A. Martin, written in a cursive style.

Operator's Well Number:
Farm Name: CISCO, MELISSA DRENNAN
U.S. WELL NUMBER: 47-039-01976-00-00
Vertical Re-Work
Date Issued: 9/23/2024

Promoting a healthy environment.

09/27/2024

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. 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 within 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 Officer 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.

09/27/2024

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

1) Well Operator: Columbia Gas Transmission, LLC 307032 Kanawha Eik Blue Creek, WV
Operator ID County District Quadrangle

2) Operator's Well Number: Coco C 7354 3) Elevation: 1035.3

4) Well Type: (a) Oil _____ or Gas X
(b) If Gas: Production _____ / Underground Storage X
Deep X / Shallow _____

5) Proposed Target Formation(s): Oriskany Proposed Target Depth: 5553

6) Proposed Total Depth: 5553 Feet Formation at Proposed Total Depth: Oriskany

7) Approximate fresh water strata depths: _____

8) Approximate salt water depths: None reported by driller RECEIVED
Office of Oil and Gas

9) Approximate coal seam depths: None reported by driller SEP 6 2024

10) Approximate void depths,(coal, Karst, other): None reported by driller WV Department of
Environmental Protection

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Pull tubing, perform cased hole logs, perform coil tubing cleanout and 2000 gal 15% HCl acid stimulation, rerun tubing, flowback.

Angela White
8-21-24

13) **CASING AND TUBING PROGRAM** * existing

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor						
Fresh Water	11.75	J-55		57	57	25 sxs
Coal						
Intermediate	8.625	J-55	24	2278	2278	505 sxs
Production	5.5	N-80	17	5548	5548	415 sxs
Tubing	2.375	J-55	4.6	5403	5403	-
Liners						

Packers: Kind: _____
Sizes: _____
Depths Set _____

47-039-01976W

WELL JOB PLAN		STS Well Engineering & Technology		PAGE 2	DATE JOB PREPARED: 3/28/2024
Objective: Restore deliverability				LAST PROFILE UPDATE:	
TITLE: Pull tbg, HRVRT, CTCO, snub tbg back			WORK TYPE: 0		
FIELD: Coco C	WELL: 7354				
STAT: WV	SHL (Lat/Long): 38.450599 -81.433304		API: 47-039-01976		
TWP: Elk	BHL (Lat/Long): 38.450599 -81.433304		CNTY: Kanawha		
PROCEDURE					
<p>NOTE: Deliverability has dropped since the 2010 workover. Suspect fill. 2010 frac job was a success with new historical max AOF achieved.</p>					
<ol style="list-style-type: none"> 1 Obtain EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC. 2 Notify landowner. 3 Obtain General Work Permit and Wellsite Review & Turnover Form from Operations. 4 Notify Reservoir Engineering & Geosciences (REG) of intent to take well out of service. 5 Notify environmental inspector prior to beginning work. If required, notify State/Federal regulatory agencies prior to beginning work. 6 Disconnect well line. 7 Prepare access road and well site. Install ECD's per EM&CP. 8 Service all wellhead valves. 9 Document and report to WE&T the initial casing and annular pressures. 10 Pump 20 gals methanol and 20 bbls fresh water down tubing to verify it's open. Let set overnight. 11 Kill well with kill weight viscosified polymer fluid. Monitor well to ensure fluid level is static before continuing. If the well is not static, consult with the WE&T engineer. 12 MIRU service rig. 13 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. 14 NU 7-1/16" 3M gate valve, Cameron double BOP (blind-shear in bottom / 2-3/8" pipes in top), and annular. 15 Perform low (500 psi) and high (2200 psi) pressure test on each BOP component. Will need a pulling joint screwed into top of tubing mandrel to perform pipe and annular pressure test. 16 Pull 2-3/8" tubing. <i>Evaluate tubing condition, for tubing to be rerun back in the well.</i> 17 MIRU Baker Atlas Logging. Run gauge ring and HRVRT. RDMO loggers. <i>Request 1-day turnaround on HRVRT analysis. Condition of 5-1/2" casing will determine next steps. Consult with WE&T engineer before proceeding.</i> 18 MIRU 1.75" CTU. 19 Flow well. If well wont flow, unload with nitrogen. 20 Perform CTCO and 2000 gallons of 15% HCL treatment. 21 RDMO CTU. 22 Flow well to recover treatment fluids. 23 Perform final 45-min flowback test thru 3/4" choke. Record flow test in the FLOWTEST and GAS LOSS DATA SHEET. 24 Snub 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 bottom of wireline re-entry guide as close to bottom of 5-1/2" casing as possible. Lock down tubing mandrel. 25 RDMO snubbing unit. 26 Reconnect well line. 27 MIRU TTS slickline unit. Pressure tubing. Run gauge ring and pull SN plugs. RDMO slickline unit. 28 Notify WET Project Support that well is back in-service. 29 Reclaim R&L. 30 Commission well by completing, processing, and retain for records the Wellsite Review and Turnover Form. 31 Notify REG that well is ready for storage service. 					
<p>RECEIVED Office of Oil and Gas</p> <p>SEP 6 2024</p> <p>WV Department of Environmental Protection</p>					
PREPARED BY: Maria Medvedeva		REVIEWED BY: James Amas		APPROVED: Brent Criser	
PREP DATE: 3/28/2024					

Averya Hala 8.21.24

09/27/2024

WELL JOB PLAN		STS Well Engineering & Technology		PAGE 1	DATE JOB PREPARED: 3/28/2024
Objective: Restrore deliverability				LAST PROFILE UPDATE:	
TITLE: Pull tbg, HRVRT, CTCO, snub tbg back				WORK TYPE:	
FIELD: Coco C		WELL ID: 7354		LEASE #: 2274	
STATE: WV		SHL (Lat/ Long): 38.450599	-81.433304	API: 47-039-01976	
DIST/TWP: Elk		BHL (Lat/Long): 38.450599	-81.433304	CNTY: Kanawha	
EXISTING TUBULAR CONFIGURATION		OD (inches)	WEIGHT (PPF)	GRADE	THREAD
		DEPTH (ft)		WELLLINE #: X52CW7354	
				TOP	BOTTOM
Surface		11.75	24.0	J-55	0
Intermediate		8.625	17.0	J-55	0
Production		5.5	4.6	N-80	0
Tubing		2.375		J-55	10 rd
					0
					5403
Perforations		5468 - 5488, 5475 - 5476			
Wellhead		API 5k, 5-1/2" flow string x 8-5/8" support, 2-3/8" 8RD wellhead connection Wellhead is C-21 type (straight bore) w/C-21 slips & packoff plate. Casing spool is Nat'l type w/"H" rubber and follower plates. Tubing hanger is OTC type (straight bore) w/Cameron BP threads. Seal is activated by pins in tubing flange.			
D.H. EQUIPMENT		TYPE		DEPTH (ft)	
PACKER INFO: Upper					
Lower					
NIPPLE PROFILE INFO: Upper					
Lower					
SSSV INFO:					
CEMENT INFO				Calc TOC (ft)	
11.75	25 sks cement as primary.			0	
8.625	Cmt'd primary with 505 sx - should be to surface.			0	
5.5	355 sks LitePoz as lead + 60 sks Class A as tail (lost circulation during displacement)			2674	
MISC INFORMATION					
REFER TO WELL SUMMARY RPT, WELLBORE DIAGRAM, ELOG, ETC. (see spreadsheet tabs below)					
Kill Fluid Calculation * Note that kill fluid calculation tabs are hidden					
Maximum calculated bottom-hole pressure (for reference only):		2080	psig	* input	
Maximum storage field surface pressure (MAOP):		1800	psig	* input	
Well TD:		5553	ft TVD	* input	
Top of storage zone:		5460	ft TVD	* input	
Calculated maximum BH pressure at top of zone:		2072	psig	* output Kill Fluid (TOZ)	
Kill fluid density at top of zone @:		200	psi OB	8.00	ppg * output Kill Fluid (TOZ)
Proposed depth of BP:		5460	ft TVD	* input	
Calculated maximum BH pressure at depth of BP:		2072	psig	* output Kill Fluid (BP)	
Kill fluid density at depth of BP @:		200	psi OB	8.00	ppg * output Kill Fluid (BP)
Required minimum kill fluid density:		8.1	ppg	* greater of the two	
Current AOF:		18,493	MCF/D		
Top historical AOF:		99,295	MCF/D		
Last MVRT:		10/05/2010 Baker HRVRT indicates class 1 casing. Highest metal loss of 18% at 5454', internal corrosion.			
SBT:		10/05/2010 Baker CBL indicates good quality cmt 5394 - 5260, poor quality 5302-4700, free pipe to top logged interval of 3988'.			
PROPOSED YEAR:	2025	ERCB PERMIT REQD:	YES ___ NO ___ X ___	(Internal) PDS Required: YES ___ NO ___	
PREPARED BY:	Maria Medvedeva	DT. APPLIED:	ISSUED:	APPROVED:	Brent Criser
PREP DATE:	3/28/2024	REVIEWED BY:	James Amas		

Refer to "Wellbore Diagram" tab

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Coco C 7354 (API 47-039-01976) - CTCO and Acid Treatment

API 5K wellhead, 5-1/2" FS x 8-5/8" support

5-1/2" 17# N-80 csg set at 5548'

Burst: 7740 psig new (6192 psig assuming 80% safety factor)

Capacity: [5548 ft x 0.9764 gal/ft] = 5417 gals; x 0.0232 bbl/ft = 129 bbls

Openhole

Capacity 7-7/8" hole: 5 ft x 0.06024 bbl/ft = 0.3 bbls

Total Capacity: 130 bbls

Oriskany: 5460 – 5550, perf's 5468 – 5488' and 5475 – 5476'

TD: 5553

Fluids Needed

2000 gals 15% HCl acid** treated with corrosion inhibitor, iron control/sequestering agent, and surfactant. Biocide, clay stabilizer, and surfactant to treat +/- 300 bbls fresh water. Liquid caustic on location in case need to neutralize flowback fluids.

* Prior to acid treatment verify that the 5-1/2" x 8-5/8" annulus is full, top off with fresh water treated with biocide, corrosion inhibitor, and clay stabilizer as needed.

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CTCO Procedure

1. MIRU 1.75" CTU.
2. Load CT with treated fresh water (TFW) and pressure test CT and BOPs to 2200 psig.
** maximum pressure on wellhead components 4500 psig*
3. Open well and RIH under static conditions.
4. At 5300' begin jetting with foamed TFW. Jet to TD and cycle up and down across interval 5400' – TD.
5. Begin 15% HCl acid foamed to 50Q and cycle up and down across interval 5400' – 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 5000'. Flow until returns are relatively dry.
8. CTU on stand-by until after acid treatment to unload wellbore if needed.

Acid Treatment

1. RU to perform acid treatment down casing as follows. Pump at highest rate possible while staying below maximum treating pressure.

▪ 1000 gals 15% HCl acid	4-5 BPM	Max Treating Press = 2000 psig
▪ 30 bbls bbls TFW	3-4 BPM	Max Treating Press = 1500 psig
▪ 30 bbls bbls TFW	3-4 BPM	Max Treating Press = 1500 psig
▪ 25 bbls bbls TFW	2-4 BPM	Max Treating Press = 1000 psig
▪ 20 bbls TFW	2-4 BPM	Max Treating Press = 1000 psig
		▪ SHUT DOWN FOR 30 minutes TO ALLOW ACID TO SOAK
▪ 15 bbls TFW	1-3 BPM	Max Treating Press = 1000 psig
		▪ SHUT DOWN FOR 30 minutes TO ALLOW ACID TO SOAK
▪ 15 bbls TFW	1-3 BPM	Max Treating Press = 1000 psig

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47-039-01976W

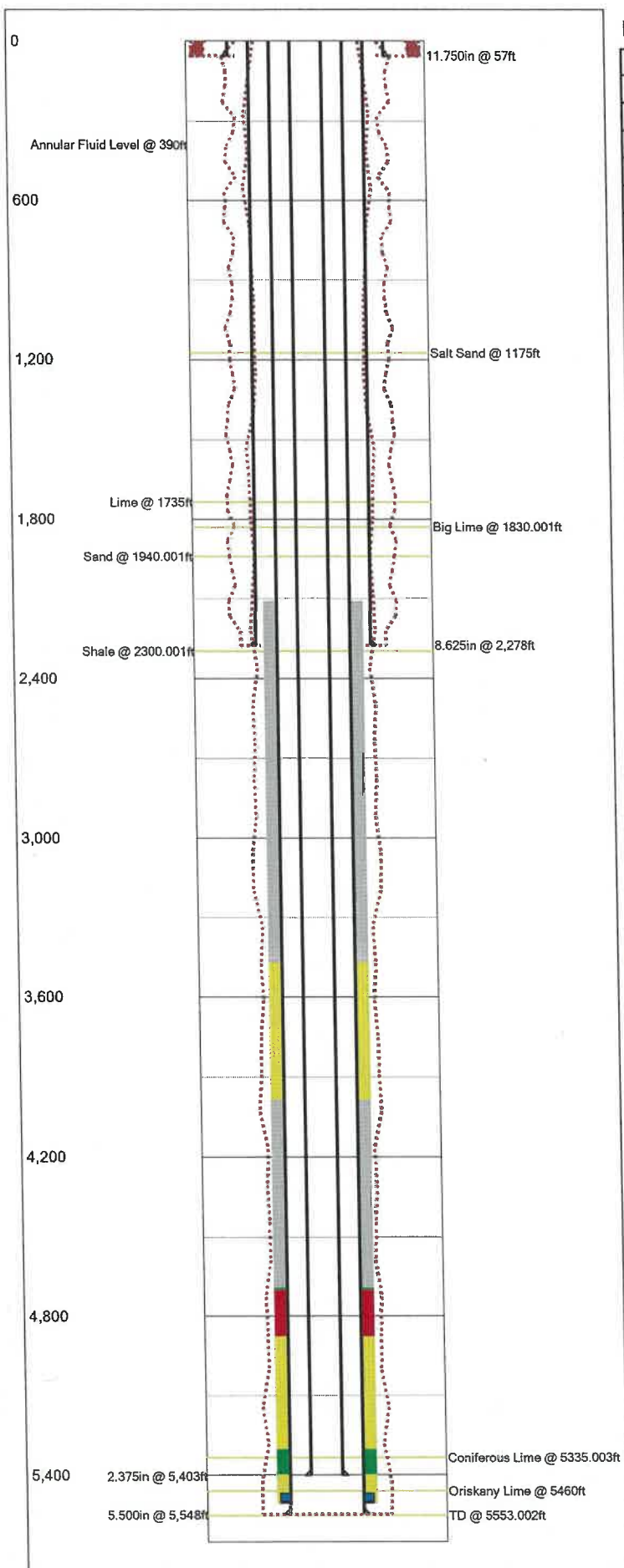
2. Flow well. If well quits flowing, RBIH with CT unloading fluid with N2.
3. RDMO and release CTU / acid equipment.

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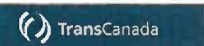
SEP 6 2024

WV Dept
Environmental Protection

09/27/2024



Last Updated: 2/13/2024 12:02 PM



Field Name		Lease Name		Well No.		
Coco C		Coco C - 07354		07354		
County		State		API No.		
Kanawha		WV		47039019760000		
Version		Version Tag				
0		Current Completion				
G.L. (ft)	K.B. (ft)	Sec.	Township/Block	Range/Survey		
5,553.0	5,492.0	72-65	Elk	030407354		
Operator		Well Status	Latitude	Longitude		
TransCanada		ACTIVE	38.4506	-81.4333		
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From		
PropNum		Spud Date	Comp. Date			
James F. Brown, III, Trustee		9/1/1963				
Additional Information						
I-79 north from Charleston Exit 9 - Elkview Right off ramp 1.2 mi to 4-way intersection Left on Rt 119 north 1.2 mi turn right on Blue Creek Rd 57 0.2 mi cross bridge and turn left on Wallgrove Rd 50 ft take first gravel rd to right Uphill, thru gate (keep gate closes at all times) - lock combination 3102 Follow main road 1.2 mi - turn left just passed well 7324 Left at 1st fork - right 2nd fork - bear left at 3rd fork - well on right along rd						
RECEIVED Office of Oil and Gas SEP 6 2024 WV Department of Environmental Protection						
Other1	Other2	Other3	Other4			
Coco C	0304	030407354				
Prepared By		Updated By	Last Updated			
			2/13/2024 12:02 PM			
Hole Summary						
Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments		
9/21/1963	15.000	0	57			
9/26/1963	10.625	1	2,278			
10/4/1963	7.875	0	5,548			
Tubular Summary						
Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
9/21/1963	Casing	11.750		J-55	0	57
9/26/1963	Casing	8.625	24.00	J-55	1	2,278
10/4/1963	Casing	5.500	17.00	N-80	0	5,548
10/9/2010	Tubing	2.375	4.60	J-55	0	5,403
Casing Cement Summary						
C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	10/5/1963	0	5.500	2,110	3,470	Free Pipe
	10/5/1963	0	5.500	3,470	4,692	Partial Quality
	10/5/2010	0	5.500	3,987	4,700	Free Pipe
	10/5/1963	0	5.500	4,692	4,878	Good Quality
	10/5/2010	0	5.500	4,700	5,302	Poor Quality
	10/5/1963	0	5.500	4,878	5,507	Partial Quality
	10/5/2010	0	5.500	5,302	5,398	Good Quality
Perforation Summary						
C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	
	5/31/1996	Open		5,468	5,488	
	10/5/1963	Open		5,475	5,476	
	9/6/1993	Open		5,475	5,476	
Formation Tops Summary						

7354

UNITED FUEL GAS COMPANY
COMPANY

SERIAL WELL NO. 7354 LEASE NO. 2274 MAP SQUARE 72-65

RECORD OF WELL NO. 7354 on the		CASING AND TUBING				TEST BEFORE SHOT
James F. Brown	farm of 400 Acres	SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	/10 of Water in _____ inch
in Elk	District	11-3/4"			60'	/10 of Merc. in _____ inch
Kanawha	County	8-5/8"			2277'	Volume _____ Cu. ft.
State of: West Virginia		5-1/2"			5592'	TEST AFTER SHOT Frac
Field: Northern Division		2-3/8"			5464'	/10 of Water in _____ inch
Rig Commenced	September 18, 1963					/10 of Merc. in _____ inch
Rig Completed	September 20, 1963					Volume <u>27,492</u> Cu. ft.
Drilling Commenced September 20, 1963						Hours After Shot _____
Drilling Completed October 2, 1963						Rock Pressure <u>1680</u>
Drilling to cost \$6.50 per foot						Date Shot _____
Contractor is: C. E. Richner						Size of Torpedo _____
Address: Pineville, W. Va.		SHUT IN				Oil Flowed _____ bbls. 1st 24 hrs.
		Date _____				Oil Pumped _____ bbls. 1st 24 hrs.
Driller's Name F. M. Terry		in _____ Tubing or Casing				
R. G. Beahnear		Size of Packer _____				Well abandoned and
		Kind of Packer _____				Plugged _____ 10 _____
		1st Perf. Set _____ from _____				
Elevation: 1034.85		2nd Perf. Set _____ from _____				

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Surface Sand	0	65	65	
Sand	65	120	55	
Slate	120	140	20	
Sandy Shale	140	210	70	
Sand & Shale	210	605	395	
Shale	605	660	55	
Sand	660	810	150	
Sand & Shale	810	870	60	
Sand	870	900	30	
Shale & Sand	900	1175	275	Survey @ 1020' - 1/8
Salt Sand	1175	1580	405	Small Amount of Water 1225'
Sand & Shale	1580	1735	155	Foam Drilling @ 1235' Survey @ 1600' - 1/8
Lime	1735	1830	95	
Big Lime	1830	1940	110	Survey @ 2250' - 1/8
Sand	1940	1980	40	Set 8-5/8" Csg. @ 2300'
Sand & Shly. Sand	1980	2025	45	Survey @ 3000' - 1/8 Survey @ 4300' - 3-3/4
Sand - Shells	2025	2215	190	Survey @ 5000' - 6-1/4 Survey @ 5385' - 6-1/2

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[Signature]

09/27/2024

47-039-01976W

Columbia Gas Transmission, LLC
1700 MacCorkle Ave., SE, Charleston, WV, USA 25314



September 5, 2024

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

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

Coco C 7354 (API 47-039-01976)

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

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

FEE ATTACHED.
JWM

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 10 2024

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www.tcenergy.com

09/27/2024



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

Fwd: For Permit Application Payments

1 message

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

Tue, Aug 27, 2024 at 3:08 PM

Correction below:

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

From: Whitlock, Renae D <renae.d.whitlock@wv.gov>
Date: Tue, Aug 27, 2024 at 3:07 PM
Subject: Re: For Permit Application Payments
To: Null, Gregory L <gregory.l.null@wv.gov>

The funding is listed below:

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

Thank you,
Renae

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

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

From: Maria Medvedeva <maria_medvedeva@tcenergy.com>
Date: Tue, Aug 27, 2024 at 3:02 PM
Subject: For Permit Application Payments
To: Gregory.l.null@wv.gov <Gregory.l.null@wv.gov>

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Office of Oil and Gas

SEP 6 2024

WV Department of
Environmental Protection

Gregory, good afternoon,

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

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

<https://mail.google.com/mail/u/0/?ik=69dfaba05a&view=pt&search=all&permthid=thread-f:1808568499699886614%7Cmsg-f:1808568910982257242&...> 1/3

09/27/2024

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

SALE

MID: 5993
TID: 00E30710 REF#: 00000002
Bank ID: 000000
Batch #: 1014 RRN: 241138629984
08/28/24 08:19:45
AVR: 7 CVC: U
Invoice #: 7171

APPR CODE: 09596S
VISA Manual CP
*****4694

AMOUNT \$900.00

APPROVED

SIGNATURE NOT REQUIRED

I AGREE TO PAY ABOVE TOTAL AMOUNT
IN ACCORDANCE WITH CARD ISSUER'S
AGREEMENT
(MERCHANT AGREEMENT IF CREDIT VOUCHER)
RETAIN THIS COPY FOR STATEMENT
VERIFICATION

Thank You
Please Come Again

MERCHANT COPY

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

SALE

7354 47-039-01976 W
MID: 5993
TID: 00E30710 REF#: 00000003
Bank ID: 000000
Batch #: 1014 RRN: 241192630042
08/28/24 08:20:42
AVR: 7 CVC: U
Invoice #: 7154

APPR CODE: 08806S
VISA Manual CP
*****4694

AMOUNT \$900.00

APPROVED

SIGNATURE NOT REQUIRED

I AGREE TO PAY ABOVE TOTAL AMOUNT
IN ACCORDANCE WITH CARD ISSUER'S
AGREEMENT
(MERCHANT AGREEMENT IF CREDIT VOUCHER)
RETAIN THIS COPY FOR STATEMENT
VERIFICATION

Thank You
Please Come Again

MERCHANT COPY

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

SALE

MID: 5993
TID: 00E30710 REF#: 00000004
Bank ID: 000000
Batch #: 1014 RRN: 741041630101
08/28/24 08:21:41
AVR: 7 CVC: U
Invoice #: 7117

APPR CODE: 00297S
VISA Manual CP
*****4694

AMOUNT \$100.00

APPROVED

SIGNATURE NOT REQUIRED

I AGREE TO PAY ABOVE TOTAL AMOUNT
IN ACCORDANCE WITH CARD ISSUER'S
AGREEMENT
(MERCHANT AGREEMENT IF CREDIT VOUCHER)
RETAIN THIS COPY FOR STATEMENT
VERIFICATION

Thank You
Please Come Again

MERCHANT COPY

WW-2A
(Rev. 6-14)

1.) Date: 08/19/2024
2.) Operator's Well Number Coco C 7354
State 47- County 039 Permit 01976
3.) API Well No.:

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

4) Surface Owner(s) to be served;
(a) Name Aaron and Jessica Armstrong
Address PO Box 1044
Elkview, WV 25071
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Terry Urban
Address PO Box 1207
Clendenin, WV 25045
Telephone 304-549-5915
5) (a) Coal Operator
Name Not operated
Address _____
(b) Coal Owner(s) with Declaration
Name Not operated
Address _____
(c) Coal Lessee with Declaration
Name Not operated
Address _____
RECEIVED
Office of Oil and Gas
SEP 10 2024
WV Department of Environmental Protection

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

OR Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

x Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

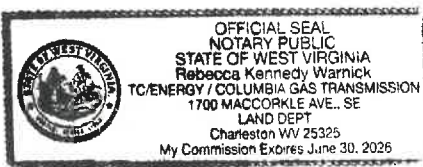
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

- _____ Personal Service (Affidavit attached)
- x _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator: Columbia Gas Transmission, LLC
By: Maria Medvedeva
Its: Senior Wells Engineer Storage Technical Services
Address: 1700 MacCorkle Ave SE
Charleston WV 25314-1273
Telephone: 304-410-4313
Email: maria_medvedeva@tcenergy.com

Subscribed and sworn before me this 19th day of August, 2024

Rebecca Warnick

Notary Public

My Commission Expires 8/19/24

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

09/27/2024

47-039-01976W

Columbia Gas Transmission, LLC
1700 MacCorkle Ave., SE, Charleston, WV, USA 25314



August 19, 2024

RECEIVED
Office of Oil and Gas

SEP 6 2024

Aaron and Jessica Armstrong
PO Box 1044
Elkview, WV 25071

WV Department of
Environmental Protection

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 C 7354 (API 47-039-01976).

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 website at www.usps.com

Elkview, WV 25071

Certified Mail Fee	\$4.85	0726
Extra Services & Fees (check box, add fee as appropriate)	\$4.10	
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$9.85	
Total Postage and Fees	\$18.80	

Postmark Here
08/19/2024

Sent To: Aaron & Jessica Armstrong
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY												
<ul style="list-style-type: none"> 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. 	<p>A. Signature X </p> <p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>												
<p>1. Article Addressed to: Aaron and Jessica Armstrong PO Box 1044 Elkview, WV 25071</p> <p>9590 9402 7630 2122 5681 49</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Collect on Delivery Restricted Delivery	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®												
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™												
<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery												
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™												
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery												
<input type="checkbox"/> Collect on Delivery Restricted Delivery													
<p>2. Article Number (Transfer from service label) 7022 2410 0002 6396 3126</p>	<p>PS Form 3811, July 2020 PSN 7530-02-000-9053</p> <p>Domestic Return Receipt</p>												

www.tcenergy.com

09/27/2024

47-039-01976W

WW-2A Surface Waiver
(4/16)

SURFACE OWNER WAIVER

County Kanawha

Operator
Operator well number

Columbia Gas Transmission LLC
Coco C 7354

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:

RECEIVED
Office of Oil and Gas

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

SEP 6 2024

WV Department of
Environmental Protection

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.

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.

List of Water Testing Laboratories. 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 CORPORATION, ETC.

Signature Date _____

Company Name _____
By _____
Its _____ Date _____

Print Name

Signature Date _____

09/27/2024

47-039-01976W

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

* coal not operated

County Kanawha

Operator Columbia Gas Transmission LLC

Operator's Well Number Coco C 7354

INSTRUCTIONS TO COAL OPERATOR, 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 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

WAIVER

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.

Signature

Date

Company Name

By

Its

Date

Signature

Date

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Office of Oil and Gas
SEP 6 2024
WV Department of
Environmental Protection

09/27/2024

**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
James F. Brown III, Trustee	United Fuel Gas Company	Storage Lease - 1002274-800	137 / 1

**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 acknowledges 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 6 2024

WV 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 necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:
By: Its:

Columbia Gas Transmission, LLC
 Maria Medvedeva
 Senior Wells Engineer Storage Technical Services



09/27/2024

WW-2B1
(5-12)

N/A

Well No. Coco C 7354

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 contractor chosen to collect sample.

Certified Laboratory Name _____
Sampling Contractor _____

Well Operator Not applicable - existing underground natural gas storage well

Address _____

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 27 2024

Environmental Protection

09/27/2024

WW-9
(5/16)

API Number 47 - 039 - 01976
Operator's Well No. Coco C 7354

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) Walnut Creek of the Elk River Quadrangle Blue Creek, 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

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Undergound Injection (UIC Permit Number 34-167-23862)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Mud Master 64054; Reserve Environmental Services (WMGR 123SW008)
Appalachian Water Services (WMGR 123SW001))

Will closed loop system be used? If so, describe: yes - steel flow line to tanks

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Fresh water RECEIVED
Office of Oil and Gas

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? NaCl, biocide, soda ash, polymer, starch, CaCO3, KCl, HCl SEP 6 2024

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A WV Department of
Environmental Protection

-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 managed by Waste Management and US Ecology for disposal at permitted landfill

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.

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 obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

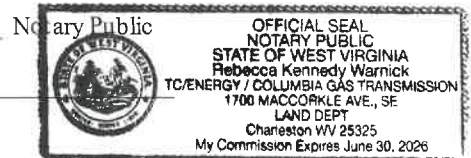
Company Official Signature [Signature]

Company Official (Typed Name) Maria Medvedeva

Company Official Title Senior Wells Engineer Storage Technical Services

Subscribed and sworn before me this 19th day of August, 20 24

My commission expires 6/30/24



09/27/2024

Proposed Revegetation Treatment: 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 600 lbs/acre

Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual rye	40	Orchard Grass and/or Tall Fescue	29
		Birdsfoot Trefoil (Empire)	9
		Annual Rye	12

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

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SEP 6 2024

WV Department of
Environmental Protection

Title: Inspector of Gas Date: 8.21.24

Field Reviewed? Yes No

09/27/2024

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): Walnut Creek of the Elk River Quad: Blue Creek, WV
Farm Name: James F. Brown, III, Trustee

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

No fluids planned to be discharged. No fertilizer will be stored on site. 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.

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

Walnut Creek is at a distance of 0.42 miles N.
The Trail Kitchen WV9908037 is the closest Well Head Protection Area at a distance of 9.98 miles SE from discharge area.

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

N/A
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Office of Oil and Gas
SEP 6 2024

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

09/27/2024

N/A

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

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

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

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

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SEP 6 2024
Environmental Protection

8. 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.

Signature: [Handwritten Signature]

Date: 08/19/2024

09/27/2024

47-039- 01976W

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Office of Oil and Gas

SEP 10 2024

WV Department of
Environmental Protection

WV DEP Reclamation Plan - Site Detail

Coco C well 7354 (API 47-039-01976)

- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and surface material to be applied as needed

Existing access road

Coco C 07354

Limit of Proposed Disturbance
on existing well site

~0.5 acre

- Legend**
- Coco C - 07354
 - CWACC 7354

09/27/2024

Google Earth

200 ft



47-039-01976W

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SEP 6 2024

WV Department of
Environmental Protection

WV DEP Reclamation Plan - Overview

Coco C well 7354 (API 47-039-01976)

- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and surface material to be applied as needed

Existing access road

Coco C 07354

Legend

- Coco C - 07354
- CWA CC 7354

09/27/2024

Walnut Creek

2000 ft



Google Earth

47-039-01976 W

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SEP 6 2024

WV Department of
Environmental Protection

(ROMANCE) mytopo
081° 27' 08.8721" W
038° 28' 20.7461" N

BLUE CREEK QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES (CLIO)

(KETTLE)

081° 24' 50.3999" W
038° 28' 20.7461" N



(BIG CHIMNEY)

(CLEDENIN)

(CHARLESTON EAST)

(MAMMOTH)

Produced by Trimble Terrain Navigator Pro
Topography based on USGS 1:24,000
Maps

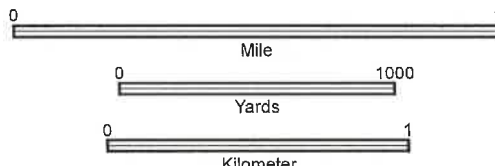
North American 1983 Datum (NAD83)

To place on the predicted North American
1927 move the projection lines 11M N and
14M E

Declination



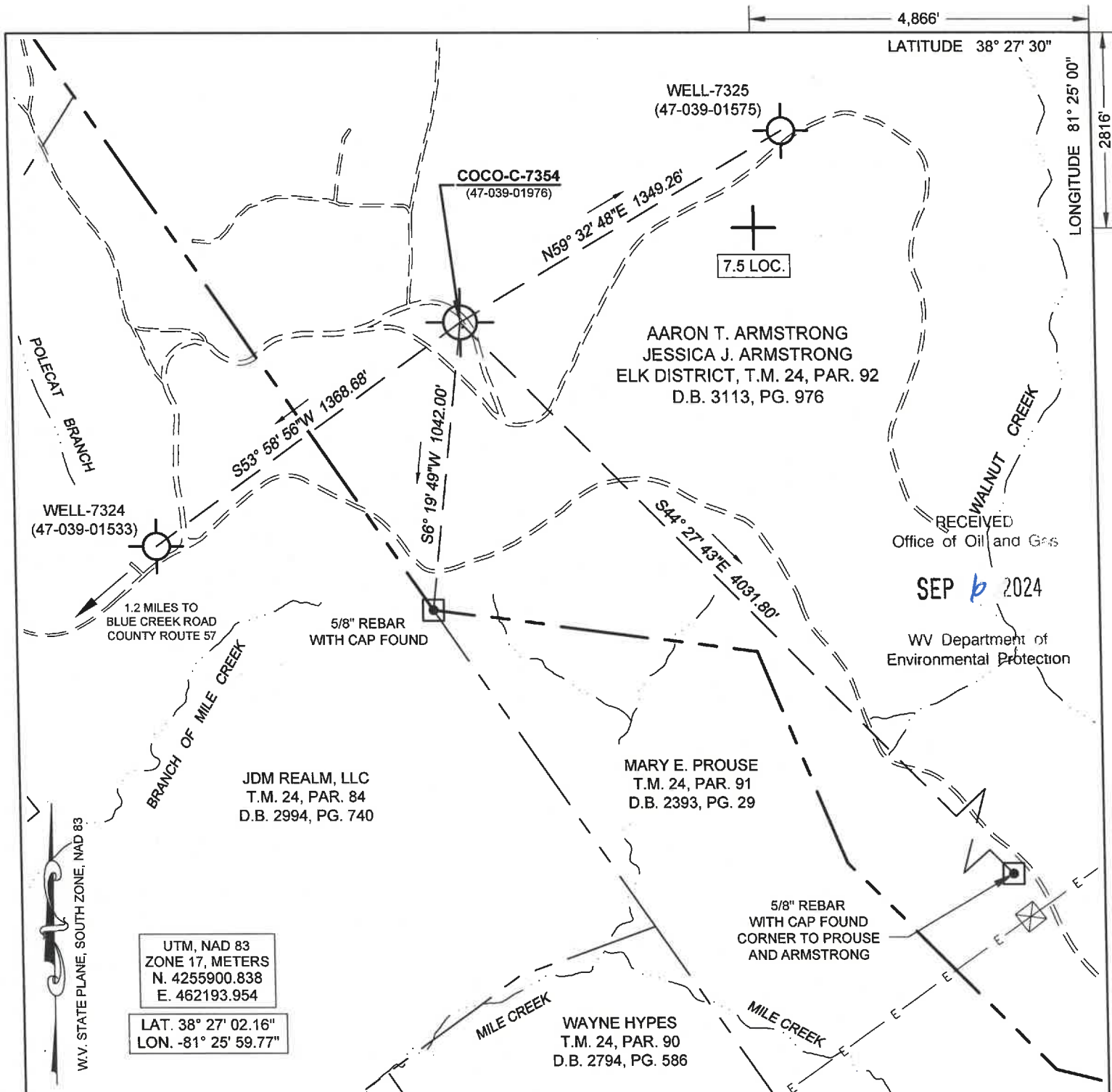
(QUICK)
SCALE 1:24000



CONTOUR INTERVAL 20 FT

38081-D3-TM-024
BLUE CREEK, WV
JAN 1, 1977

09/27/2024

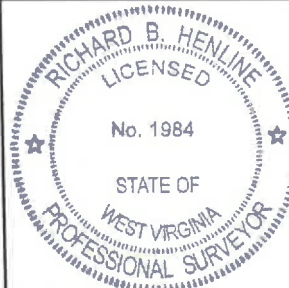


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. 2401-2345-010
DRAWING No. 2401-2345-010
SCALE 1 INCH = 500 FEET
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION TRIMBLE R12 GPS UNIT

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED) Richard B. Henline
RICHARD B. HENLINE PS #1984



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
NITRO, WV



DATE AUGUST 16 2024
OPERATOR'S WELL No. 7354
API WELL No. 47 039 - 01976W

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE COUNTY PERMIT
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1035.3' WATER SHED WALNUT CREEK - A TRIBUTARY OF THE ELK RIVER
DISTRICT ELK COUNTY KANAWHA
QUADRANGLE BLUE CREEK, WV

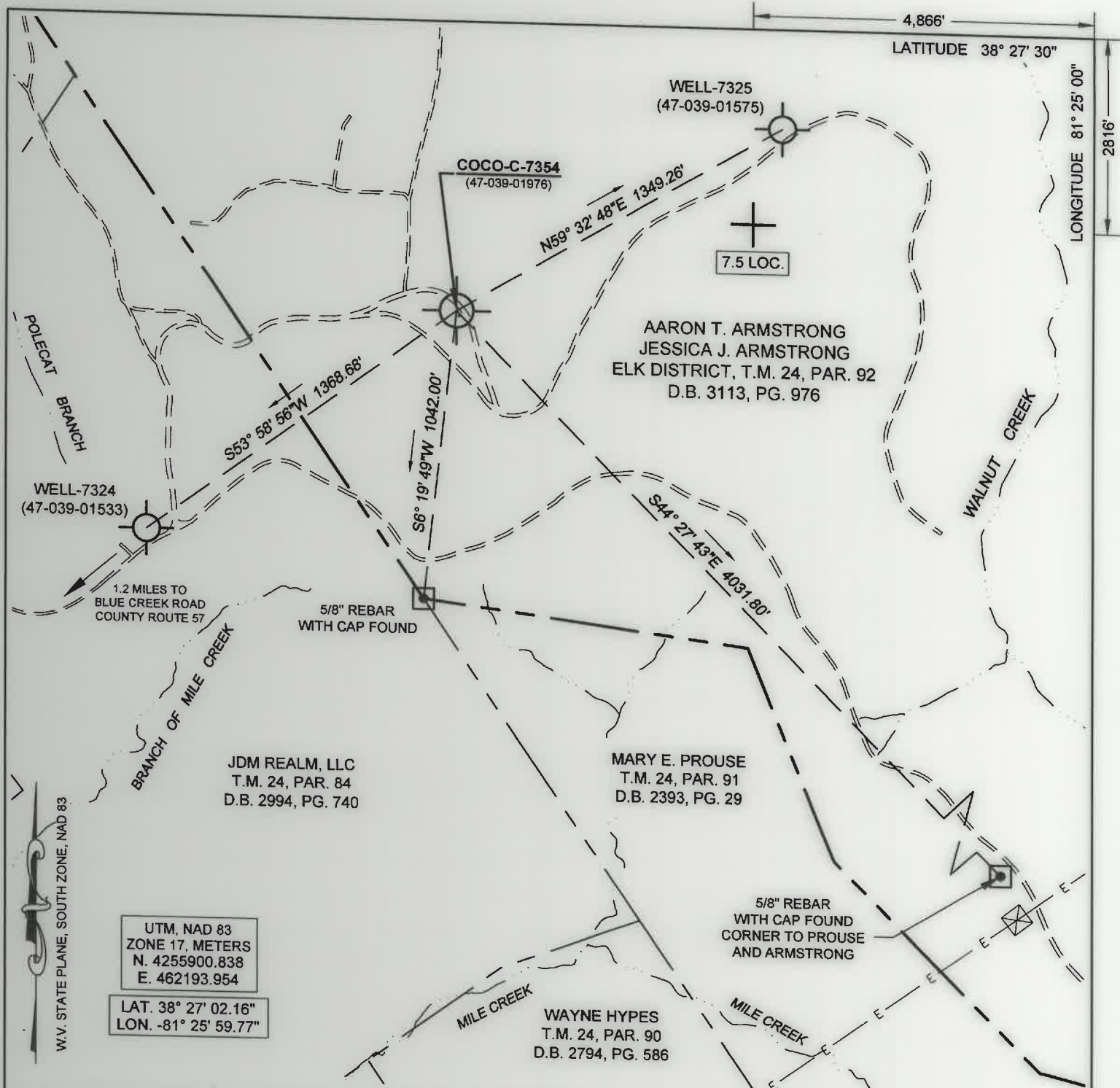
SURFACE OWNER AARON TRAVIS ARMSTRONG AND JESSICA JUDY ARMSTRONG ACREAGE 390
O&G ROYALTY OWNER JAMES F. BROWN III, TRUSTEE

LEASE ACREAGE 400 ACRES LEASE NO. 1002274-800 09/27/2024

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE
STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) PULL TUBING, LOG, CTCO, RE-RUN TUBING
PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION ORISKANY ESTIMATED DEPTH 5553
WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT MARIA MEDVEDEVA
ADDRESS PO BOX 1273, CHARLESTON, WV 25325-1273 ADDRESS 1700 MACCORKLE AVE, SE CHARLESTON, WV 25314

FUKM IV-6 (8-178)

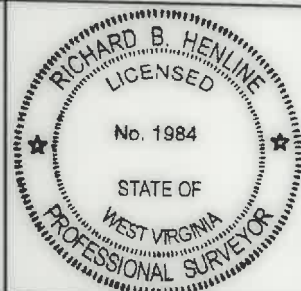


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. **2401-2345-010**
 DRAWING No. **2401-2345-010**
 SCALE **1 INCH = 500 FEET**
 MINIMUM DEGREE OF ACCURACY **1:200**
 PROVEN SOURCE OF ELEVATION **TRIMBLE R12 GPS UNIT**

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED) *Richard B. Henline*
RICHARD B. HENLINE PS #1984



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 NITRO, WV



DATE **AUGUST 16** 20**24**
 OPERATOR'S WELL No. **7354**
 API WELL No. _____

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE DEEP SHALLOW ___
 LOCATION: ELEVATION **1035.3'** WATER SHED **WALNUT CREEK - A TRIBUTARY OF THE ELK RIVER**
 DISTRICT **ELK** COUNTY **KANAWHA**
 QUADRANGLE **BLUE CREEK, WV**

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TARGET FORMATION **ORISKANY** ESTIMATED DEPTH **5553**
 WELL OPERATOR **COLUMBIA GAS TRANSMISSION, LLC** DESIGNATED AGENT **MARIA MEDVEDEVA**
 ADDRESS **PO BOX 1273, CHARLESTON, WV 25325-1273** ADDRESS **1700 MACCORKLE AVE, SE CHARLESTON, WV 25314**

FUKM IV-b (8-78)