

#### west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary www.dep.wy.gov

Monday, March 29, 2021 WELL WORK PLUGGING PERMIT Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC STORAGE TECHNICAL SERVICES - 6TH FLOOR 1700 MACCORKLE AVE. SE. CHARLESTON, WV 25314

Re: Permit approval for 7078 47-039-01306-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief

Operator's Well Number: 7078

Farm Name: TURLEY, RICHARD

U.S. WELL NUMBER: 47-039-01306-00-00

Vertical Plugging Date Issued: 3/29/2021

### **PERMIT CONDITIONS**

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

#### **CONDITIONS**

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date 12/24	· · · ,	2020
2) Operator's		
Well No. Coco B	7078	
3) API Well No.	47-039	- 01306

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

		IIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas/ Liquid  (If "Gas, Production or Und	l injection/ Waste disposal/  derground storage X) Deep X/ Shallow
5)	Location: Elevation 753 feet	Watershed Flatwood Run of Indian Creek
	District Elk	County Kanawha Quadrangle Blue Creek
6)	Well Operator Columbia Gas Transmission LLC	7) Designated Agent James Amos
	Address 1700 MacCorklle SE Charleston, WV 25325	Address 48 Columbia Gas Road Sandyville, WV 25275
8)	Oil and Gas Inspector to be notified	9)Plugging Contractor
	Name Terry Urban	Name Contractor Services Inc.
	Address PO Box 1207	Address 929 Charleston Road
	Clendenin, WV 25045	Spencer, WV 25276
	<ul><li>1) Well job plan.</li><li>2) Prior to P&amp;A wellbore schematic.</li><li>3) Proposed P&amp;A wellbore schematic.</li></ul>	RECEIVED Office of Oil and Gas  JAN 1 3 2021  WV Department of Environmental Protection
		·
vorl	ification must be given to the district oik can commence.  k order approved by inspector	l and gas inspector 24 hours before permitted  Date 12:29-30

WELL JOB PLAN		Well Eng	gineering & Ted	hnology			PAGE 1		PREPARED. 12/21/2020
Objective: Plug and Ab		LAST PROFILE UPDATE: WORK TYPE: WR							
TITLE: Plug and A	Abandon			7070			WORK IN	PE:	VVR
FIELD: Coco B			WELL					PI:	
STATE: WV			SHL (Lat/ Long					NTY:	
DIST: EXISTING TUBULAR	OD	WEIGHT	BHL (Lat/Long		DE	PTH (ft)	FORMATION:		Oriskany
CONFIGURATION	(inches)	(PPF)	GRADE	THREAD	TOP	ВОТТОМ	DEPTH:		See below.
Conductor	(IIIclies)	(FFF)	UNADL	THINEAD	101	BOTTOM	PAY:		ELEVATIONS
Surface							TD:		TMG:
Intermediate1							PBTD:		KB-RF:
Intermediate2	District Control						KB-GL:		GL:
Production		1 = 11						DEPTH	WELLBORE SCHEMATIC
Tubing									
Perforations									
Perforations									
Perforations									
Wellhead								- 411	
D.H. EQUIPMENT				TYPE		DEPTH (ft)		- 10	
PA	CKER INFO:	Upper							
		Lower							
and the same of the									
NIPPLE PRO	OFILE INFO:	Upper							
37.75-725		Lower							
	SSSV INFO:	c = 3							
CEMENT INFO						TOC (ft)			
1 0 E							1 1-1		
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							<u> </u>		
MISC INFORMATION									
REFER TO	WELL S	UMMAR	Y REPORT a	and WELL	BORE DIA	GRAM			
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	Offic	RECEIV ce of Oil	and Gas						
	Ollic	Ce OI OIL	arra cias						
	J	AN 13	2021						
	W	V Depart	ment of Protection						
	Enviro	onmental	Protection						
PROPOSED YEAR:	0.00		ERCB PERMIT F	REOD:	YES	NO_X	(Internal) PDS Requ	ired: YE	ES NO
	202	20	DT. APPLIED:	40.	ISSUED:	MOX			Signature
PREPARED BY:	7,00		REVIEWED BY:		IOGOLD.		APPROVED:		
	Jim A	mos					APPROVED: X	Jan	ECim
PREP DATE:	100	5.85.8 T.						Amos	
	12/21/	2020					Princi	pal Engine	
							Signe	u υγ: α3aa€	52d7-b683-404d-8328-f042f2e33502

WELL JOI	B PLAN	well Engi	neering a	s. recnnology	/	PAGE 2			12/2 1/2020
Objective: F	Plug and Abandon						LAST PROF	FILE UPDATE:	
TITLE:	Plug and Abandon					WORK TYP	E: WR		
FIELD:	Coco B		VELL:	7078					
STAT:	WV	SHL (Lat/L	_ong):	0	0	A	PI: 0		
TWP:	0	BHL (Lat/L	_ong):	0	0	CNT	Γ <b>Υ</b> : 0	<del></del>	LENGTH (ft)
	BHA SCHEMATIC	NO.			DESC	CRIPTION			LENGTH (II)
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			Environm	nental Protect					
			177.						

\*\*Note: All cement used will be Class A, slurry weight 15.6ppg, slurry yield 1.18 cuit/sk. All spacers will be 6% Bentonite gel\*\*

- Obtain State plugging permit, FERC authorization, EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
- Notify landowner.
- 3 Obtain General Work Permit and Wellsite Review & Turnover Form from Operations.
- 4 Notify environmental inspector prior to beginning work.
- 5 Notify State O&G inspector prior to beginning work.
- Disconnect well line.
- 7 Install ECD's per EM&CP.
- 8 Prepare access road and well site.
- 9 Document casing and annular pressures.
- 10 Blow down all annuli, replace fittings as needed, and leave annuli open to atmosphere for monitoring.
- 11 Kill well with viscosified fluid. Spearhead 10 bbl LCM pill ahead.
- 12 Load 3x5 and 5x10 annuli with kill fluid, Fill all remaining annuli with FW. Document volumes.
- 13 Dig around base of wellhead to uncover casing tops and remove cement if present.
- 14 MIRU service rig
- 15 Stack a second 3-1/8" 5K gate valve on top of the flow cross and NU 3-1/8" manual BOPE (pipe + pipe).
- 16 Function and pressure test BOPE to low (250 psig) and high (2500 psig).
- 17 TIH w/ 1-3/4" workstring with cut-lip shoe and wash to TD.
- 18 Pump balanced cement plug from TD to 3300 ft.
- 19 POOH to above cement, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC.
- 20 WOC minimum 8 hours. RIH and tag cement, If cement top is deeper than 4500' then spot a second balanced cmt plug.
- 21 Install 3-1/2" CIDBP above cement plug.
- 22 Top off 3-1/2" with kill fluid and perform 500 psig pressure test to verify integrity of BP.
- 23 Release all annular pressure.
- 24 ND BOPE and wellhead components down to A-section. Weld pulling nipple on 3-1/2" tbg stub.
- 25 Pull seals and slips
- 26 Strip 7-1/16" Cameron BOPE (blind/shears + 3-1/2" pipe rams + annular) over stub and NU on top of A-section. Will need kill/choke outlets below blind/shear rams.
- 27 Function test and pressure test pipe rams low (250 psig) and high (2500 psig).
- 28 Wireline freepoint and cut/pull all free 3-1/2" tubing.
- 29 Obtain CBL inside 5-1/2" casing. Consult with WET engineer on next step this may change plans forward.
- 30 Change pipe rams to 1-3/4" and function test.
- 31 TIH with work string and install balanced cement plug from CIBP to 300' above top of 3-1/2" tog stub.
- 32 POOH to above cement, reverse circulate to clean tubulars, pull 5 joints, close pipe rams, and WOC.
- 33 WOC minimum 4 hours. RIH and tag cement. If cement top is less than 100' from top of 3-1/2" tog stub then install second cement plug.
- 34 Install 5-1/2" CIDBP above cement plug.
- 35 Top off 5-1/2" with kill fluid and perform 500 psig pressure test to verify integrity of BP
  - "If top of 3-1/2" stub is shallower than 2250", or if cement top behind 5-1/2" csg is deeper than 1950", then consult with WET engineer to determine next steps, which may result in altering next steps to pull 5-1/2" csg.
- 36 Perforate thru both the 5-1/2" and 7" csg (consult with perforating company) above BP.
- 37 Perform injection test
- 38 Change pipe rams back to 2-3/8" and function test.
- 39A If injection established: Install cement retainer above perfs and squeeze cement. Consult with WET engineer for procedure.
- 39B If injection not established: Cover perfs with 600' balanced cement plug, pick up above cement, clean tubulars, close pipe rams, apply 500 psig, and WOC.
- 40 WOC minimum 4 hours. RIH and tag cement. If cement top is less than 100' above perfs then install second cement plug.
- 41 ND BOPE and remove A-section.
- 42 Weld pulling nipple on 5-1/2" casing and dress top of 10-3/4" to accommodate BOPE.
- 43 Strip 11" spool (w/ kill + choke outlets) and annular over stub and NU to 10-3/4" csg.
- 44 Function test and attempt to pressure test low (200 psig) and high (500 psig).
- 45 Wireline freepoint and cut/pull all 5-1/2" casing that is free.

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Office of Oil and Gas

JAN 1 3 2021

WV Department of Environmental Protection

PREPARED BY:	Jim Amos	REVIEWED BY:	APPROVED:	
PREP DATE:	12/21/2020	RECEIVED Gas		

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					400	220T200b	
WELL JOE		Well Engineering	& Technolo	ogy	PAGE 4	DATE JOB PREPARED: 12  LAST PROFILE UPDATE:	2/21/2020
Objective:	Plug and Abandon				WORK TYP	PE: WR	
TITLE:		WELL:	7078		WORKTH	her wars	
FIELD:			0	0	Δ	API: 0	
STAT:		SHL (Lat/Long): BHL (Lat/Long):	0	0	CN	W / 1	
IVVP:	U	Bric (Laucong).		URE CONTINUED	-		
46	TIH with work string and in	stall balanced cement plug	from top of la	st cement plug to 3	00' above top of 5-1/2'	" csq stub.	
47		everse circulate to clean tub					
48	WOC minimum 8 hours. R		alare, par e j	outed along byba tel	NA AMERICA		
40	VVOC minimidin o nodis. iv	in to tag coment					
	* Decide whether there's a	n opportunity to perf and sq	ueeze cemer	t behind the 10-3/4	csa - consult with WI	ET engineer.	
49A		ze: consult with WET engine					
49B		ueeze: proceed with next st					
50	ND BOPE.						
51		of 10-3/4" and 13-3/8" csgs	š.				
52	Drive 10' to 20' of 16" casin	() 하는 강식, 20 M.H. 아이를 하지 않는 이 회사 이 모든 것 :					
53		pull all 10-3/4" csg that is fre	20				
54	- 1 TO SEE THE SECOND S	sg. If can't pull then wirelin		nd cut/pull all that is	free		
55		deep as possible (using a s					
56	Top off all annuli with ceme		man alamote	9.00.00			
57	RDMO service rig.						
58	Carlottake tree-day are expensed at the first	regulations. Reclaim location	n and lease i	road.			
59	P&A complete.	3		3750			
93	Tart complete.						

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JAN 1 3 2021

WV Department of Environmental Protection

Juny W Mlha 12/29-20

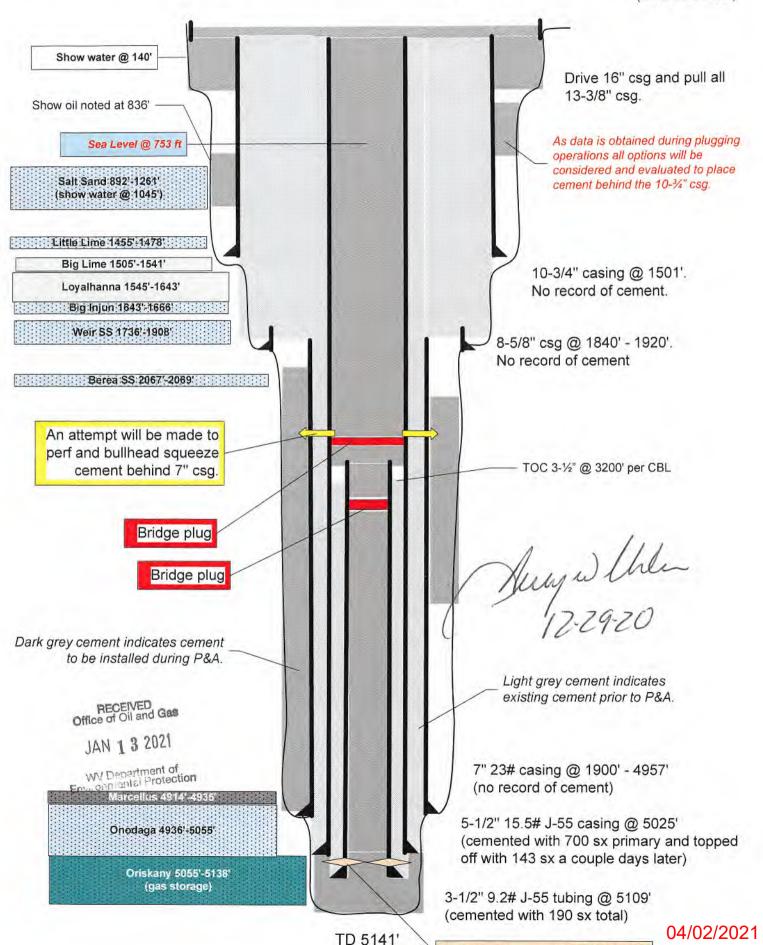
PREPARED BY:	Jim Amos	REVIEWED BY:	APPROVED:	
PREP DATE:	12/21/2020			

4703901306P Proposed P&A

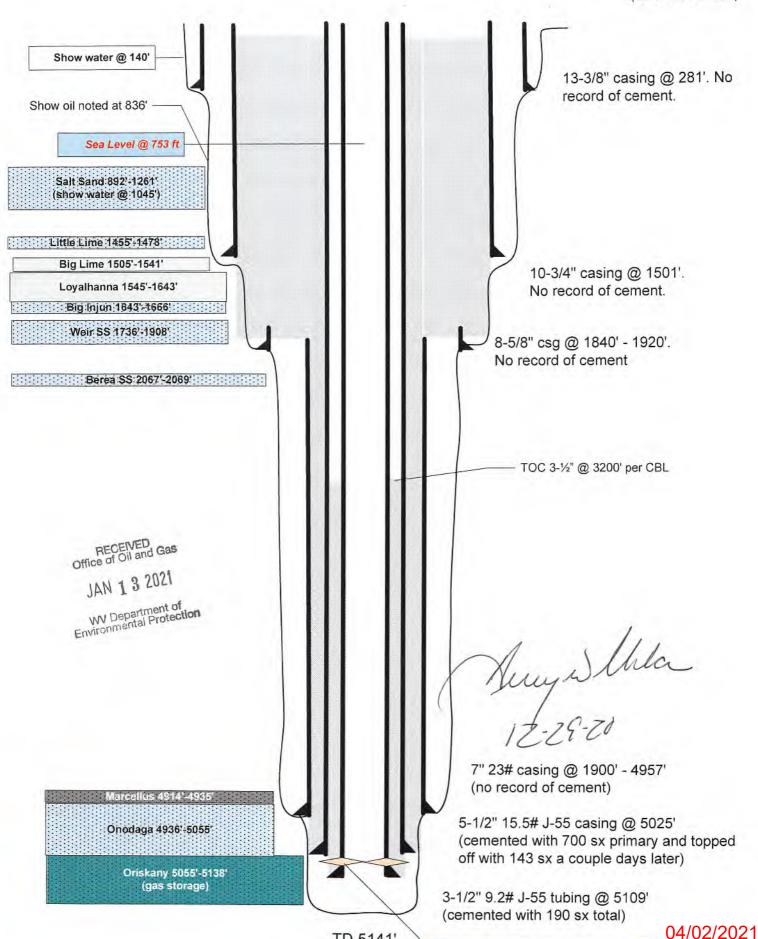
2003 cement squeeze perfs 5060'-5078'

**COCO B 7078** 

(as of 12/9/2020)



(as of 10/14/2020)



TD 5141'

2003 cement squeeze perfs 5060'-5078'

WR-35 Rev (5-01) DATE: 3/10/04

API#: 47-039-01306

### State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well O	perator's Report of W	ell Work		
Farm name: Richard Turley	Ope	rator Well No.	: Coco B #7078	
LOCATION: Elevation: 752'	Qua	drangle: Blue	Creek, WV	
District: Elk County: Kanawha Latitude: Feet South Longitude Feet West	of 38 Deg. 24 Min. of 81 Deg. 28 Min.	09 Sec. 49 Sec.		
Company: Columbia Gas Transmission	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: RR 2 Box 138				
Sandyville, WV 25275				
Agent: Paul Amick				
Inspector: Carlos Hively				
Date Permit Issued: 6/23/03	3-1/2"	5119'	5119'	190 sx
Date Well Work Commenced: 7/18/03				
Date Well Work Completed: 11/6/03				
Verbal Plugging:		1		
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet): 5140		1	ul land	
Fresh Water Depth (ft.):				
			-	CEIVED
Salt Water Depth (ft.):			Office	ce of Oil & Gas
			000	ffice of Chief
Is coal being mined in area (N/Y)? No		X F		R 1 5 2004
Coal Depths (ft.):	26		I M	1K 12 500
OPEN FLOW DATA				N Department of ronmental Protection
Producing formation Oriskany Sa: Gas: Initial open flow N/A Gas Storag Final open flow N/A Gas Storag Time of open flow between initi	rage MCF/d Oil: In ge MCF/d Final of al and final tests N/	nitial open flo open flow N A Gas Stora	w N/A Gas Stor /A Gas Storage ge Hours	Bbl/d
Static rock Pressure N/A Gas Stora	ige psig (surface pre	essure) after	N/A Gas Storag	ge Hours
Final open flowMCF	/d Oil: Initial open /d Final open flo	w	Bbl/d Bbl/d	
Time of open flow between initi			ours	
Static rock Pressure psig	(surface pressure) a	fterI	lours	
NOTE: ON BACK OF THIS FORM PUT INTERVALS, FRACTURING OR STIMULOG WHICH IS A SYSTEMATIC DETAINCLUDING COAL ENCOUNTERED BY Signed:	JLATING, PHYSICA AILED GEOLOGICA Y THE WELLBORE.	AL CHANGE, AL RECORD	ETC. 2). THE W	ELL

Date:3/10/04

\				· 1
IR-26 Rev 04 PAGE 1	INSPECTORS PERMIT	SUMMARY FORM  GPS YES[] N	( ) O	
DATE STARTED/LOCATION:	API	#: 039-1306-0 WELI	.NO. #	7078
DRILLING COMMENCED:	8-18-63 OPERATO	R: Columbia	60.5	Trans
TD DATE:	DEPTH:	FARM: Turl	ey, Ric	chard
WATER DEPTHS		COAL DEPTHS	//	
QUESTIONS FOR THIS REPORT AND REGULATIONS 35CSR 4-1	ARE IN ACCORDANCE OF W 2.1 AND 35CSR 4-16 AND THE	V CODE 22-6-30 GENERAL WATER POLLUTI	ON CONTRO	L PERMIT
POINTS ARE TO BE GIVEN U	P TO MAXIMUM AS SHOWN I	BASED ON PERFORMANCE	· •-	
1. DID OPERATOR GIVE PROPE	ER NOTICE TO INSPECTOR BE	FORE THE FOLLOWING:	·c/	
A. CONSTRUCTION YES[] 1	NO[] (2_PTS) B. DRIL	LING YES[] NO[](2_PT	.5)	(4 PTS)
2. WAS THE TIMBER CUT, STA	CKED, AND BRUSH USED FOR	R SEDIMENT BARRIERS BEF	ORE	,
DIRT WORK STARTED? YE	S[] NO[] (4_PTS)			(4 PTS)
3. ARE ALL LOCATION AND/O	OR ROAD BANKS BEING SLOP	ED? YES[] NO[](4_PT	S)	(4 PTS)
4. CONSTRUCTION:		00 BB	**************************************	•
WERE THE FOLLOWING SEDI A. ROAD DITCHES (1)_(2)_(3)	MENT CONTROL STRUCTURE	S PROPERLY INSTALLED/M SS DRAINS (1)_(2)_(3)_(4)_(	AINTAINED? '5) (PTS)	
C. CULVERTS (1) (2) (3) (4)	(5) (PTS). D. CREEK CR	OSSINGS (1)_(2)_(3)_(PTS)	,-/_(/	
E. DIVERSION DITCHES (1) (G. TEMPORARY SEEDING YE	(2) (3)_ (PTS)	(S (1)_(2)_(3)_(PTS)		(28 PTS)
5. HAS TOP SOIL (IF ANY) BEE	EN STOCKED PILED? YES[]	NO[](2_PTS)		(2 PTS)
6. IS THE PIT PROPERLY INSTA	ALLED AND MAINTAINED? Y	TES[] NO[] (6_PTS)		(6 PTS)
7. RECLAMATION:				
A. ROADWAY (1)_(2)_(3)_(P)	TS B. LOCATION (1)			
C. PITS (1)_(2)_(3)_ (PTS) E. TANK DIKES (1)_(2)_(3)_ (1	D. PIPELINES (1) F. GATES & FENC	_(2)_(3)_(PIS) FS_(1)_(2)_(3)_(PTS)		
G. API INSTALLED YES OR N	O 3 (PTS) H. ADEQUATE	SEEDING MATERIALS (1)_	(2)_(3)_ (PTS)	)
I. WAS SEED BED ADEQUATE		TTS AVAILABLE FOR QUES	TION 7:	(27 PTS)
8. WAS RECLAMATION COMP 6 MTHS OF TD 11_PTS;	LETED WITHIN: POIN 4 MTHS OF TD 6_PTS;	NTS AVAILABLE FOR QUES 2 MTHS OF TD 7_PTS.	TION 8:	(24 PTS)
TOTAL MAXIMUM POSSI	IBLE SCORE OF 99.			
		TOTAL RECLAM	(ATION SCO	RE:
INSPECTIONS:				
8-19-03 Runn	Ind drill bit	in well to	drill o	deepeni
9-25-03 Check	drillind an	d Tilli well	dt 5	146
9-29-03 Runn	ind 35" Cas	ind in well	to	ement
9-19-03 Clear	nimbup well	Andc,		
11-14-03 Laca	tion reclaim	ed and se	edea	<u></u>
17-7-04 Check	ked location	and OKKIT	Rt to	lease,
			-   REC	FIVED OII & Gas
			Office	of Chief
			+ EZZ +	4 2004
		0	8	
12-7-04	Carles w. Ausil	, 	WV Depa Environment	rtment of
DATE RELEASED	INSPECTOR	•	Environment	al Pro <b>0/46</b> 2/202

39-01306D

Form: WW - 2B

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

1)Well Opera	ator Colum	nbia Gas Trai	nsmission	10450		Elk	Blue Creek
,				Operator	D County	District	Quadrangle
2) Operator's	Well Numb	er:Coco	B #7078	3)	Elevation:	_752'_	
4) Well Type		Production	X/ Under X/ Shalld		ge <u>X</u>		
5) Proposed 6) Proposed	Target Form	nation(s):	Oriskany Sai	ndstone			_
7) Approxima 8) Approxima	ate fresh wa	ter strata dep	oths:NR		_		
, , ,		•					
9) Approxima	ate coal sea	m depths:	None				
10) Does lan	d contain co	al seams trib	outary to active r	nine?	No		
11) Describe	proposed w	_t	Kill well. Drill ne	nent to 4200'.	Install new Al	PI 5M we	ellhead.
			Stimulate Oriska Clean up and ret			ally tracti	ırıng.
			olean up anu let	uiii to service			
12)			G AND TUBING	PROGRAM	******	<del></del>	
TYPE	SPECIFIC			OTAGE INT		CEME	
	<u>Size</u>	<u>Grade</u>	<u>Weight</u>	<u>Drilling</u>	<u>Left in well</u>	Fill up	
Conductor Surface	<u>13-3/8"</u>			<u> 281'</u>	<u> 281'</u>	05	RECEIVED
Intermed.	10-3/4"			<u>1501'</u>	<u>1501'</u>		Permitting
Intermed.	<u>8-5/8"</u>			1920'	80'		N 0 5 2003
							<b>1</b>
Intermed.	<u>7"</u>		<u>23#/ft</u>	<u>4957'</u>	<u>3057'</u>	Environm	epartment of sental Protection
<b>Production</b>	<u>5-1/2"</u>		15.5#/ft	<u>5025'</u>	<u>5025'</u>	All stri	nus
Tubing	<u>2-7/8"</u>	<u>J-55</u>	<u>6.5#/ft</u>	<u>90'</u>	<u>90'</u>	Cmtd w/843s	sx
	Packers:	Camco SS	SV at 90'	1. H. 5-1	2.17		
***********	×+====================================				<u> </u>	~~~~~	



Office of Oil and Gas 1356 Hansford Street Charleston, WV 25301 Phone: (304) 558-6075 Fax: (304) 558-6047

#### West Virginia Department of Environmental Protection

Bob Wise, Governor Stephanie R. Timmermeyer, Cabinet Secretary

June 23, 2003

## WELL WORK PERMIT Drilling Deeper

This permit, API Well Number: 47-3901306, issued to COLUMBIA GAS TRANSMISSION CORP, 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 all 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 1-800-654-3312 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 drilling, 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 results in civil and/or criminal penalties being imposed upon the operators.

This permit will expire in two (2) years from the issue date.

If there are any questions, please feel free to contact me or Mr. Al Blankenship at 304-558-6342.

JAMES MARTIN

Chief,

Office of Oil and Gas

Operator's Well No: 7078

Farm Name: TURLEY, RICHARD

API Well Number: 47-3901306

**Permit Type: Drilling Deeper** 

Date Issued: 06/23/2003

West Virginia
Department of
Environmental Protection

8/23/03 - Reamed 4-3/4" hole from 5118' to 5140'

8/30/03 - Set 3-1/2" 9.2 ppf J-55 tubing at 5119' KB Cemented 3-1/2" with 90 sx Class A cement

9/5/03 - Installed new API 5M wellhead

9/10/03 - Re-cemented 3-1/2" with 100 sx Class A cement

9/18/03 - Perforated Oriskany Sandstone from 5060' to 5078' with 72 shots.

10/3/03 - Hydrofractured Oriskany Sandstone using;

1000 gal 28% Hcl 352 bbls H2O 24,900# 20/40 sand 86,000 scf N2 ATP 4500 psig ATR 14 bpm

No earthen pit constructed. All fluids hauled to L.A.D. in Wheeling, WV

多数明显 化氯 化环烷基 医多数	W	ORK ORD	ER			
REQUEST NO	4.	-5135-53	BUDGET NO.		WORK ORDER NO	
DATE				<i>*</i> 	***	• *
COMPANY Drited Fuel Gas Company PROPOSED WORK Install 4975 of 5 Casin	e ond	Wiscal kan	_ pert Produ	ction .	DISTRICTC1	endenin
PROPOSED WORK ABSULT 47/75 01 5 045441	A SELLO	WTOCOTEGU	6002 1-8461 ¥G			
KNOWN AS Well X-52-7078 - Additions		<b></b>	NO	IN	RIGINAL ISTALLATION ATE: which con	ld not be
PURPOSE AND NECESSITY To install 5" Casing shut off by other methods.	in ore	ier to situ	r oll Tear T	m v de.	THE WILLOW COM	Ta Hoo Do
LOCATION: Well X-52-7078				¥	No.	+ Vindaio
IN. DISTRIBUTION PLANT MAGISTERIAL DISTRICT	<del></del>	H	ural	Kanar	ma nes	t Virginia
RELATED PROJECT WORK ORDER NO. 1644 APPROVED BY John C. Martin	FOI	Well	X-52-7078-Pa		<u> </u>	
APPROVED BY John C. Martin		APPROV		od		
	T	IL OF EXPENDIT	URES TIMATE		ACTUAL	VARIATIÓN
MATERIAL TO BE INSTALLED PRICE	SIZE	QUANTITY	AMOUNT	QUANTITY	AMOUNT	VARIATION
15.5# Steel Casing 1.05	5#	49751	5,224.00	5025	8,136.29	<b>2,912.</b> 29
Baker Cement Shoe	5,n	1 1	61.00	1	61.71	.71
Swedge Nipple	7"x5"			1	24.48	24.48
		F	·			
### ### ### ### ### ### ### ### ### ##				•		
		·	•		·	
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	1				<u> </u>	•
TOTAL MATERIAL			5.285.00		8,222,48	2.937.48
INSTALLATION TO THE TOTAL COST			2000	-		
Direct Labor					2.707.20	roz 20
pireer paper			3,000.00		3,501.39	501.39
Use of Auto and Hauling			800,00		1,517.49	717.49
Tools, Supplies and Miscellaneous Ex Cement & Services	pense		3,000.00 1,500.00	ាំ	720.48	(2,279.52
Interest			95.00		1,671.85	171.85 24.59
Schlumberger Services			aus.		1,033.31	1,033.31
Rental of Tools Stores Expense & Freight			470.00		194.63	194.63 239.14
Labor Benefits Overheads			540.00		628.82	2,39°±4 88°82 -
Administrative Overheads			66,00		84.18	18.18
TOTAL INSTALLATION PROPERTY COST See	below		9,471.00		18,853.36	1,159.88 4,097.36
INDICATE NORTH	-	SKETCH	14,97,90,000			F-119
AMPIONIE NORTH	(CORF	RECT TO ACTU	NL)		lap Square 70	
		<b>.</b>	<b>3</b>			
Note: Move in Bucyrus Erie Spudde	r, and	String of	Cleaning Ou	t Tools,	rull	
2" Tubing, Cut and Pull 1900 of	7° Casi	ng and 18	40° of 8" Ca	sing, Rur	a String	
•					· —	* * *
of 5" Casing on Cement Float Shoe	, cemen	t between	5" and 7" 8	" and 10'	' Casing to	
Top of Well, Clean Out Cement, Re-	-Run a	String of	2" Tubing S	hut in We	and	1
					•	•
report results.						
Included above: Kill Well with Water - Well Service	Inc.		gum.		300.00	300.00
Pressure Test 7" Casing-Well Service	-				150.00	150.00
						•
		·		•		

04/02/2021

JAN 1 3 2021

WV research of

Kanawha

REQUEST	NO 3	3252		
(EGOES)	April	9.	 19	51
DATE	2402 333		 	

Production

West Virginia

DISTRICT Clendenin DEPT. (For Storage) United Fuel Gas Company Install Miscellaneous Material.

PROPOSED WORK Recondition Well X-52B-7078 (6633) and

KNOWN AS Well X-52B-7078 (6633) - Additions.

NO. ORIGINAL INSTALLATION NO. INSTALLATION INSTALLATION OR CONVEYTED STATE OF CON

into a Storage Well in Pool X-52B. LOCATION: Well X-52B-7078 (6633) N. W. Cavender Farm.

Rural DISTRIBUTION PLANT

FOR Well #6633 - Part Removal 7867 RELATED PROJECT WORK ORDER NO.

RELATED PROJECT WORK ORDER NO. 7867 APPROVED BY John C. Martin	FOR	APPROV	ED BY Ira	Good			
APPROVED BY JOHN C. Mai CIII	DETAI	L OF EXPENDIT					
					ACTUAL		RIATION
MATERIAL TO BE INSTALLED-REPORTE	SIZE	QUANTITY	AMOUNT	QUANTITY	AMOUNT		
To a Mode of Division of Comp	711	1	376,00	1	413.18		37.18
Nord. #2349 Plug Valve, Comp.	2"	1	107.00	٦	107.80		.80
Orbit Screw Gate Valve		ī	360.00	ì	360.00		CEP CEP
Type "Q" Tubing Head (Type O.C.T.T-20	12"x18		24.00	2	25.34		1.34
	2"	~	22.00	- ~ ·	22.00		.) esp
Anchor Clamps	2"		30.00	-	30.68		.68
Fittings		a a se <del>st</del> a e en <del>e</del> e	J0800				•
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				and the second		100	
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	<u> </u>		919.00		959.00	. 4	40,00
TOTAL MATERIAL			7.17.00				
Reconditioning		# 1			· · · · · · · · · · · · · · · · · · ·		and the pain
and the second of the second o		The second second	1,200,00		618.79	**	(581.21)
Direct Labor			100,00		448.83	*	348.83
Use of Auto and Hauling			50.00		11.24		(38.76)
Tools, Supplies and Miscellaneous Ex	pense		400.00	H		*	(400.00
Hauling Erecting & Dismantling Spudd	er.		25.00		24.00		(1.00
Fuel		1	25.00	1	24,00	ŀ	(2000)
			m 00		78.14	1	4.14
Stores Expense and Freight			74.00		1		(112.56)
Labor Benefits Overheads			230.00		117.44	'	
Administrative Overheads			16,00		12.09		(3.91
TOTAL NO STANDAR CONCERNING TO COST			2,095,00		1,310.53		(784.47
TOTAL ESTIMATE / Reconditioning			3.014.00		2,269.53		(744.47
					VENTORY MAR NO	F-11	9

INDICATE NORTH

MAPPED BY

SKETCH (CORRECT TO ACTUAL) INVENTORY MAP NO. F-119 Map Square 70-63

\* Hauling, Erecting & Dismantling Spudder Charges included in Direct Labor and Use of Auto and Hauling.

> JAN 1 3 2021 Enviorment of Protection

> > 04/02/2021

2-595-8356

QUANTITY MAPPED

		COMPLET	TION REPORT			·
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		Type T-26 Fig. 103 Tubing Head				
		" Turnbuckles				
1 2	3/8"	36" Tubing Anchor Clamp		1		
2	3-7/8	"xB-1/8"x16" Gaskets				
2		Ser. 900# W/N Flarmes				
1		Heavy Steel Wipple				
1		Nord Figo 2349 Plug Valve		<u> </u>		
1		Orbit Fig-204 Gate Valve				A Lance should colle 18 outs and a collection of the same of the s
16		x7" Steel Stud Bolts	1	<b> </b>		
2		Korotest M & F Steel Needle Valves	<u> </u>			
ì		Steel Casing Nipple		<u> </u>		
		Pail Pipe That. Labricant				
10	<u> </u>	Asialle Motor Cil				
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				-	Environmental Protection	
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	L		<u> </u>	<u></u>		
MATERIAL T	RANSFER	NUMBERS: April, 1951., # 157-218-May	<u>23-29-33</u>	-333		
			<u> </u>			
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#### COMPLETION REPORT

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DATE WOR	RK STAR	TED		19	DATE WORK	COMPLE	TED	19
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WW-4A Revised 6-07

4) Surface Owner(s) to be served:

RECEIVED
Office of Oil and Gas

12/24/2020 1) Date: Coco B 7078

2) Operator's Well Number

JAN 1 3 2021

3) API Well No.: 47 -

01306 039

### WV Department of STATE OF WEST VIRGINIA DEPARTMENTOFF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

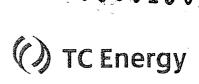
5) (a) Coal Operator

Address 1018 McNabb Drive Elkview, WV 25071  (b) Name		Address			
		Address			
(b) Name					
		(b) Coal Ow	ner(s) with Declaration		
Address		Name	12.3.4.4.4.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2		
-		Address			
			-		
(c) Name		Name			
Address		Address			
-		_	-		
) Inspector Terry Urban	//	- (c) Coal Los	see with Declaration		
Address PO Box 1207	All	Name	see with Declaration		
Clendenin, WV 25045	109	Address			
Telephone 304.549.5915	/	_ Address			
Telephone 304.548.5815	1	_	7		
	2.1	T	eate out the norties involved	in the work and de	scribes the
<ol> <li>The application to Plug and well its and the plugging wo</li> <li>The plat (surveyor's map) sh</li> <li>The reason you received these docum However, you are not required to take</li> </ol>	rk order; and lowing the well location onts is that you have rig	on on Form WW-6.		e instructions on the r	reverses side.
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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 <a href="https://dep.er/dep.e

#### Columbia Gas Transmission, LLC

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



December 24, 2020

Richard Turley 1018 McNabb Drive 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 plug and abandon an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Coco B 7078 (API 47–039–01306).

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,

<del>Jim</del> Amos Team Leader

Well Engineering & Technology Columbia Gas Transmission, LLC

RECEIVED
Office of Oil and Gas

JAN 1 3 2021

WV Department of Environmental Protection

RECEIVED
Office of Oil and Gas

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JAN 13 REC'D

WV Department of Environmental Protection

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON	DELIVERY
Complete items 1, 2, and 3.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the mailpiece, or on the front if space permits.  Article Addressed to:  RICHARD TURLEY  1018 McNABB DRIVE  ELKVIEW, WV 2507/	A. Signature  X  B. Received by (Printed Name)  D. Is delivery address different fro If YES, enter delivery address	Agent Addressed
9590 9402 3688 7335 3538 33  2. Article Number (Transfer from service label) 7017 0660 0001 0359 560	3. Service Type  □ Adult Signature □ Adult Signature Restricted Delivery □ Certified Mail® □ Certified Mail® □ Collect on Delivery □ Collect on Delivery □ Collect on Delivery Restricted Delivery Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ Ⅱ	□ Priority Mail Express® □ Registered Mail™ □ Registered Mail Restricted □ Delivery □ Return Receipt for Merchandise □ Signature Confirmation™ □ Signature Confirmation Restricted Delivery

#### SURFACE OWNER WAIVER

47039013060

RECEIVED Gas
Office of Oil and Gas

Operator's Well Number

Coco B 7078

## WV Department of Environmental Protection INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

## NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

#### **VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no o	•	planned wor	k described in	tnese materiais,	and I have no
objection to a permit being issued on thos					
FOR EXECUTION BY A NATURAL PE	RSON		FOR EXE	CUTION BY A CO	ORPORATION.
ETC.					,
	Date	Name			
Signature		By	·		
		Its			Date

API No.	47-039-01306 P
Farm Name	
Well No.	Coco B 7078

## INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less then five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

	WAIVER	
The undersigned coal operatorhas examined this proposed plugging work done at this location, provided, the well of Virginia Code and the governing regulation	order. The undersigned has operator has complied with	
Date:		
	By:	<u></u>
	Its	
RECEIVED Office of Oil and Gas		
JAN 1 3 2021		

WV Department of Environmental Protection

WW-9 (5/16)

\_01306 API Number 47 - 039 Operator's Well No.

Operator Name Columbia Gas Transmission  STATE OF WEST VIRGINIA  DEPARTMENT OF ENVIRONMENTAL PROTECTION  OFFICE OF OIL AND GAS  FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN  OP Code 307032
WI Departed FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name Columbia Gas Transmission OP Code 307032
Watershed (HUC 10) Flatwood Run of Indian Creek Quadrangle Blue Creek
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No V  Will a pit be used? Yes No V  If so, please describe anticipated pit waste: fresh water, brine, cement returns, bentonite gel
Will a synthetic liner be used in the pit? Yes V No If so, what ml.? 20
Proposed Disposal Method For Treated Pit Wastes:
Land Application (if selected provide a completed form WW-9-GPP)  Underground Injection (UIC Permit Number 34-119-28776-, 34-167-23862  Reuse (at API Number  Off Site Disposal (Supply form WW-9 for disposal location)  Other (Explain Appalachian Water Services, Station W1 Ronco WTP, Masontown, PA - Permit 2608201
Will closed loop systembe used? If so, describe: no
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A
-If oil based, what type? Synthetic, petroleum, etc
Additives to be used in drilling medium?
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) subsoils
-Landfill or offsite name/permit number?
Permittee shall provide written notice to the Office of Oil and Cas 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 Cas of the West Virginia. Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for o btaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penaltics for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  LZ Z9 Z0  Company Official Title Team Leader, Well Engineering & Technology
Subscribed and sworn before me this 29th day of December, 20 OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRIGINIA MICHAEL D. MICHAEL

My commission expires

June 19, 2022

413 FITZHUGH STREET, RAVENSWOOD, WV 26164 MY COMMISSION EXPIRES JUNE 19, 2022 04/02/2021

Field Reviewed?

Operator's Well No. Prevegetation pH 6.5 Proposed Revegetation Treatment: Acres Disturbed <1.0 Tons/acre or to correct to pH 7 Fertilizer type 10-10-10 Fertilizer amount 600 JAN 1 3 2021 Mulch 2 WV Department of Environmental Protection **Seed Mixtures Temporary** Permanent Seed Type lbs/acre Seed Type lbs/acre 40 29 **Annual Rye** Orchard Grass and/or Tall Fescue Birdsfoot trefoil (empire) 9 12 Annual Rye For wetland areas: Annual Rye (40 lbs/acre) until indigenous plants re-establish cover. 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 Comments: \_\_\_\_\_ Date:\_ 12-29-20

WW-9- GPP Rev. 5/16

Page	1	of	2
API Number 47 - 039	- (	1306	
Operator's Well No.			

# 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): Flatwood Run of Indian Creek	Quad: Blue Creek
Farm Name:	
<ol> <li>List the procedures used for the treatment and discharge of f groundwater.</li> </ol>	luids. Include a list of all operations that could contaminate the
No fertilizer will be stored on site. Small quantities site, but located within secondary containment. Accidental release from well fluids and spills from of contaminate to groundwater.	
All accumulated fluids to be hauled off site to UI	C disposal facility.
Describe procedures and equipment used to protect groundward	aterquality from the list of potential contaminant sources above.
All construction equipment will be inspected daily	y for leaks. Spill kits will be on site.
<ol> <li>List the closest water body, distance to closest water body discharge area.</li> </ol>	, and distance from closest Well Head Protection Area to the
Flatwood Run - 0.03 miles. Rippling Waters Ca	mground (WV9918017) - 13.5 miles.
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	JAN 1 3 2021
Summarize all activities at your facility that are already regular.	www Department of Environmental Protection  lated for groundwater protection.
N/A	
200	

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

WW	-9-	GPF
Rev.	5/1	16

Signature:

Page	2 of 2
API Number 47 - 039	- 01306
Operator's Well No	

V/A	
Provide a statement	that no waste material will be used for deicing or fill material on the property.
No waste materia	al will be used for deicing or fill material on the property.
	dwater protection instruction and training to be provided to the employees. Job procedures shall how to prevent groundwater contamination.
During routine tai	lgate meetings, groundwater protection will be a topic of discussion.
Office of Oil ar	od Gas
JAN 13	2021
WV Departr Environmental	nent of Protection
Environmental	
Provide provisions	and frequency for inspections of all GPP elements and equipment.
	e stored on site. Small quantities of fuel, oil, and lubricants will be stored on vithin secondary containment. Construction equipment will be inspected dail
or leaks or spills.	



January 12, 2021

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

Enclosed are well plugging permit applications for the following Columbia Gas Transmission existing storage wells:

Coco B 7075 (039-01258)

Coco B 7078 (039-01306)

Coco B 7101 (039-01341)

Coco B 7228 (039-01623)

Coco B 7230 (039-01585)

Coco C 7326 (039-01603)

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

Columbia Gas Transmission 48 Columbia Gas Rd

Sandyville, WV 25275

If you have questions, feel free to call.

Attn: Jim Amos

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-N 1 3 2021

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Regards,

Jim Amos Team Leader

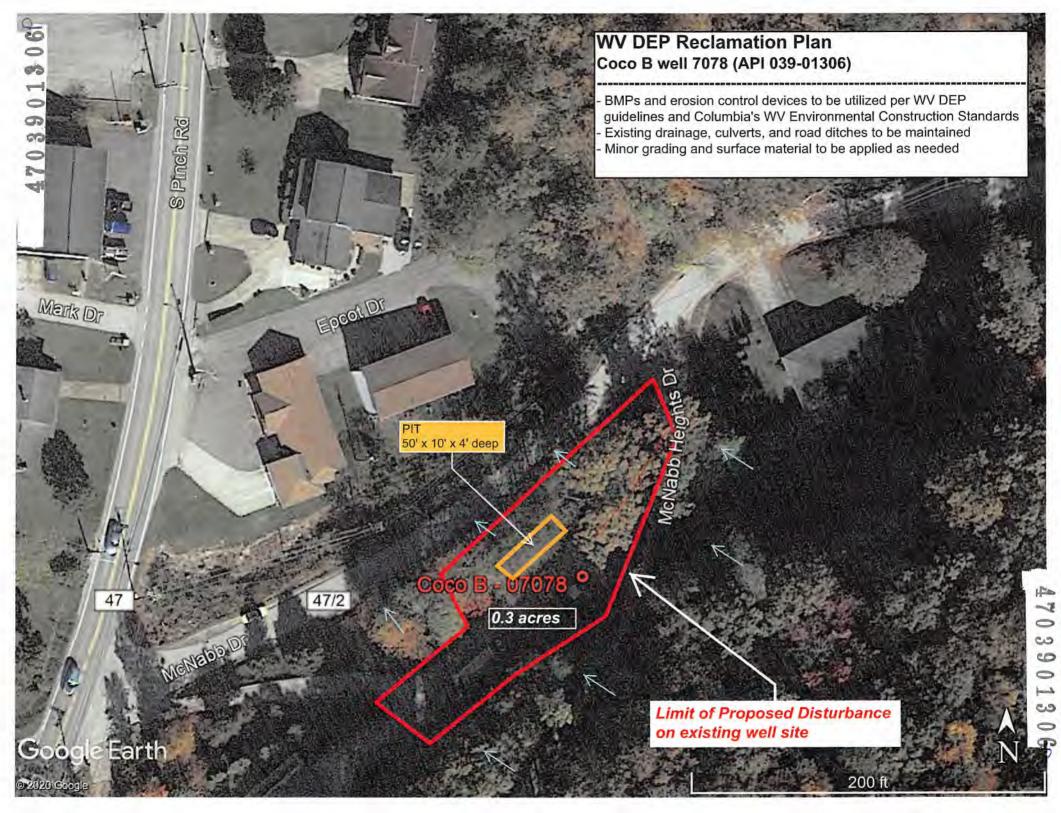
Well Engineering & Technology Columbia Gas Transmission, LLC

Off: 304-373-2412 Mob: 304-483-0073 james amos@tcenergy.com RECEIVED Office of Oil and Gar

JAN 1 3 2021

WV Department of Environmental Protection

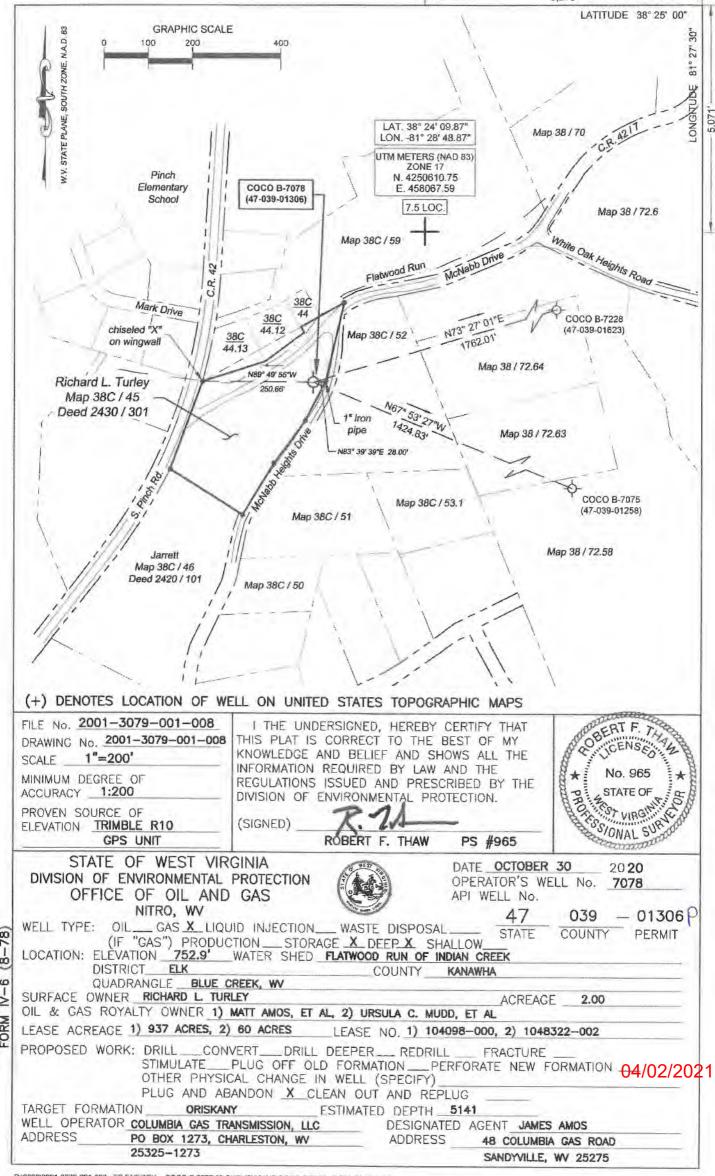
www.tcenergy.com

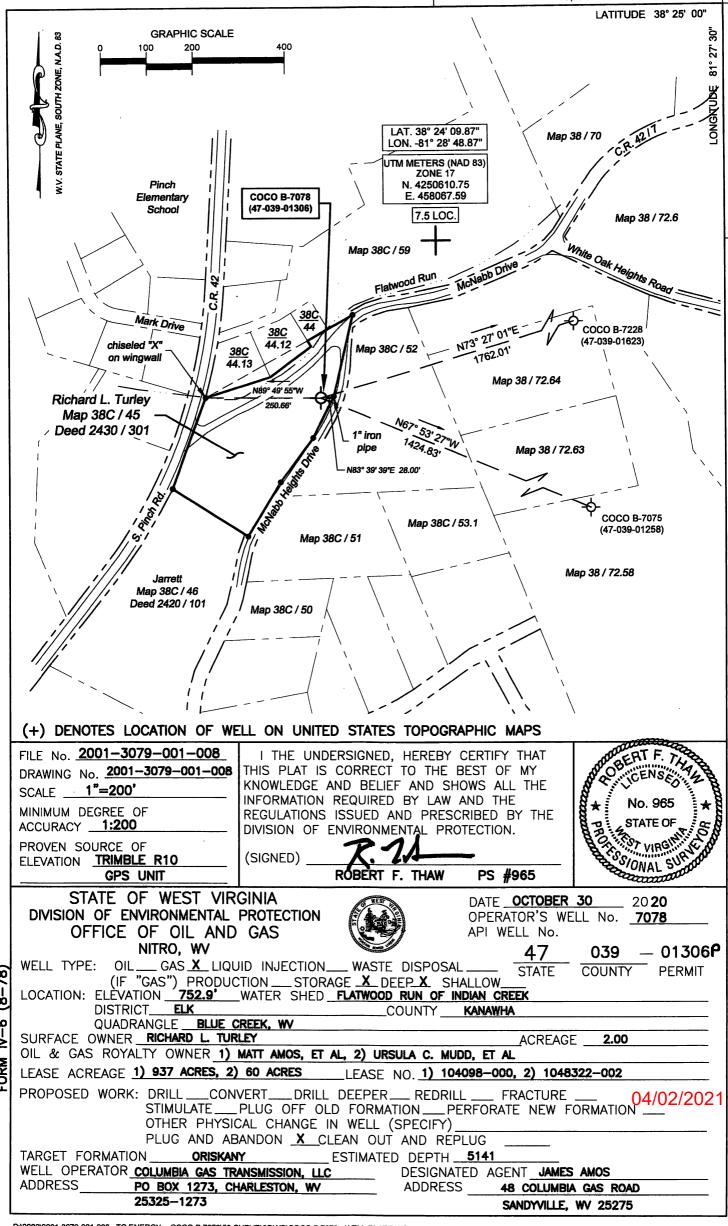






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