



west virginia department of environmental protection

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

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

Thursday, September 26, 2024
WELL WORK PLUGGING PERMIT
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for 7526
47-077-00146-00-00

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: 7526
Farm Name: KNIGHT, CLINTON S.
U.S. WELL NUMBER: 47-077-00146-00-00
Vertical Plugging
Date Issued: 9/26/2024

A blue ink signature of James A. Martin, Chief, is written over a circular blue stamp.

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. 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.
4. 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.

09/27/2024

4707700146P

WW-4B
Rev. 2/01

1) Date 08/26, 2024
2) Operator's
Well No. Terra Alta South 7526
3) API Well No. 47-077 - 00146

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil / Gas / Liquid injection / Waste disposal /
(If "Gas, Production or Underground storage) Deep / Shallow

5) Location: Elevation 2221 Watershed Madison Run
District Union County Preston Quadrangle Rowlesburg, WV

6) Well Operator Columbia Gas Transmission LLC 7) Designated Agent Maria Medvedeva
Address 1700 MacCorkle SE Address 1700 MacCorkle SE
Charleston, WV 25314 Charleston, WV 25314

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gayne Knitowski Name Next Lvl Energy, LLC
Address PO Box 108 Address 736 W Ingomar Rd, Units 268
Gorman, WV 26720 Ingomar, PA 15127-6613

10) Work Order: The work order for the manner of plugging this well is as follows:

Refer to enclosed:

- 1) Well job plan.
- 2) Prior to P&A wellbore schematic.
- 3) Proposed P&A wellbore schematic.

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Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Gayne Knitowski Date 9/3/2024

09/27/2024

WELL JOB PLAN		STS Well Engineering & Technology			PAGE 1		DATE JOB PREPARED: 4/26/2024				
Objective: Plug and Abandon					WORK TYPE:						
TITLE: Plug and Abandon					LEASE #: 91096						
FIELD: Terra Alta South			WELL ID: 7526		API: 47-077-00146						
STATE: WV			SHL (Lat/ Long): 39.33445		-79.63		CNTY: Preston				
DIST/TWP: Union			BHL (Lat/Long): 39.33445		-79.63		WELLLINE #: N/A, OB well				
EXISTING TUBULAR CONFIGURATION	OD (inches)	WEIGHT (PPF)	GRADE	THREAD	DEPTH (ft)		FORMATION	NOTES	TOP (ft)	BOTTOM (ft)	
					TOP	BOTTOM					
Conductor	13 3/8	48	H-40		0	32	Tully Lime		5361	5397	
Surface	9 5/8	36	K-55		0	2016	Shale		5397	5771	
Intermediate							Onondaga		5771	5819	
Production	7	23	K-55	seal-lok	0	5955	Chert	Gas shows	5819	5951	
Tubing	2 3/8	4.6	J-55	seal-lok	0	6113 *	Shale		5951	5963	
Tubing	* Baker model "J" ported seating nipple and Baker model "L" sliding sleeve - sliding sleeve is 437 ft off bottom.							Oriskany	Gas shows	5963	6089
								Helderberg		6089	-
Perforations	Chert perms 5832 - 5932 glass jet 2 shots / ft density, 6-1/4" OH below 7" casing							TD		6137	6137
Wellhead	API 3k wellhead, 7" flowstring x 9-5/8" support, 2" 8rd wellhead connection, tubing hanger										
CEMENT INFO					Calc TOC (ft)		ELEVATIONS (ft)				
13 3/8	Cmt'd to surface with 26 sx. Neat+2% CaCl				0		KB-GL:				
9 5/8	Cmt'd to surface with 350 sx (605 cu ft), 7563 lbs Gilsonoue+2% CaCl				116		KB-RF:				
7	Cmt'd primary with 75 sx (125cu ft) neat+ 1563 # Gilsonite & 40 sx latex cmt +500 lb Gilsonite. Gel drilling mud to surface.				CBL - 4905'		GL: 2221				
MISC INFORMATION					DIRECTIONAL WELL PROFILE (as applicable)						
REFER TO WELL SUMMARY RPT, WBD for Wellbore Schematic, ELOG, etc tabs in this workbook for additional information					Vertical Well						
Kill Fluid Calculation <small>* Note that kill fluid calculation tabs are hidden</small>											
Maximum calculated bottom-hole pressure (reference only):					2717	psig	* input				
Maximum storage field surface pressure (MAOP):					2350	psig	* input				
Well TD:					6137	ft TVD	* input				
Top of storage zone:					5819	ft TVD	* input				
Calculated maximum BH pressure at top of zone:					2733	psig	* output Kill Fluid (TOZ)				
Kill fluid density at top of zone @:					150	psi OB	9.53	ppg	* output Kill Fluid (TOZ)		
Proposed depth of BP:					5700	ft TVD	* input				
Calculated maximum BH pressure at depth of BP:					2725	psig	* output Kill Fluid (BP)				
Kill fluid density at depth of BP @:					150	psi OB	9.70	ppg	* output Kill Fluid (BP)		
Required minimum kill fluid density:					9.8	ppg	* greater of the two				
Current AOF:					35	MCF/D					
Top historical AOF:					-	MCF/D					
Last MVRT:					None available						
SBT:					8/16/1970 Basin Surveys CBL indicates good quality 5950 - 5702, partial quality through 4905', free pipe above. Log ran through to 4700'.						
PROPOSED YEAR: 2025		ERCB PERMIT REQD: YES ___ NO <u>X</u>		(Internal) PDS Required: YES ___ NO ___							
PREPARED BY: Maria Medvedeva		DT. APPLIED: ISSUED:		REVIEWED BY: James Amos		APPROVED: Brent Criser					
PREP DATE: 4/26/2024		<i>James Amos</i> 9/3/2024									

09/27/2024

4707700146P

Objective: Plug and Abandon WORK TYPE:

TITLE: Plug and Abandon	WELL: 7526			API: 47-077-00146	
FIELD: Terra Alta South	SHL (Lat/Long): 39.33445	-79.63	BHL (Lat/Long): 39.33445		
STAT: WV	-79.63		CNTY: Preston		
TWP: Union					

PROCEDURE

NOTE: Cement used will be API Class A, slurry weight 15.6ppg, slurry yield 1.18 cuft/sk or API Class L, slurry weight 15.6ppg, slurry yield 1.14 cuft/sk, as per the approved WVDEP Variance Order No.2022-13. All spacers will be 6% Bentonite gel. Well will flow brine per well records.

- 1 Obtain State well work permit, 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 Blow down all annuli, replace fittings as needed, and leave annuli open to atmosphere for monitoring.
- 11 Load / top 7" x 9-5/8" annuli with kill fluid. Document volumes. Top off remaining annuli with FW if able. Document volumes.
- 12 Kill well with 9.8pg viscosified fluid. After well is dead spot 10 bbls LCM pill on bottom.
- 13 Dig around base of wellhead to uncover casing tops and remove cement if present.
- 14 MIRU service rig.
- 15 Remove wellhead equipment down to the tubing spool.
- 16 Screw in 2-3/8" nipple with full port valve into top of hanger.
- 17 Strip over and NU 7-1/16" Cameron 5K BOPE (blind / shear + pipe + annular). Will need kill and choke outlets below blind / shear.
- 18 Function and pressure test BOPE to low (250 psig) and high (2500 psig).
- 19 Unseat hanger, PU to verify that the 2-3/8" tubing is free, remove hanger. Wash to TD.
- 20 If able to wash to TD, install balanced cement plug from TD to 5700'
- 21 If not able to wash to TD, round trip to PU 2-3/8" DP with cut-lip shoe and install balanced cement plug from TD to 5700'
- 22 PU above cement top, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC a minimum of 8 hrs.
- 23 RIH and tag cement. If cement top is deeper than 5800' then spot a second balanced cement plug.
- 24 Install a CIBP as close to above the cement top as feasible.
- 25 Top off 7" with kill fluid and perform 500 psig pressure test to verify integrity of BP.
- 26 TIH with work string and install balanced cement plugs from last cement plug to TOC behind 7" casing (~4900').
- 27 ND BOPE and remove A-section.
- 28 Weld pulling nipple on 7" casing and dress top of 9-5/8" to accommodate BOPE.
- 27 Strip 13" 3M BOPE (blind + pipe + annular) over stub and NU to 9-5/8" csg. Will need kill/choke outlets below blind rams.
- 28 Function test and attempt to pressure test low (250 psig) and high (2500 psig).
- 29 Wireline freepoint and cut / pull all 7" casing that is free.
- 30 TIH with work string and install balanced cement plugs from last cement plug to 2000'.
- 31 POOH to above cement, reverse circulate to clean tubulars, pull 5 joints, close pipe rams, and WOC a minimum of 4 hrs.
- 32 RIH and tag cement. If top of plug is below 1800' then install second cement plug.
- 33 Obtain CBL on the 9-5/8" casing to surface. Keep hole full. Provide digital copy to WET engineer.
Consult with WE&T engineer on results. Historic records indicate casing was cemented to surface, however volumetrically TOC may be at 116'.
- 34 TIH with work string and install balanced cement plug from top of last cement plug to surface.
- 35 ND BOPE.
- 36 Grout all annuli as deep as possible.
- 37 RDMO service rig.
- 38 Erect monument per state regulations. Reclaim location and lease road.
- 39 P&A complete.
- 40 Notify REG / WE&T that well is back in-service.

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PREPARED BY: Maria Medvedeva	REVIEWED BY: James Amos	APPROVED: Brent Criser
PREP DATE: 4/26/2024		<i>David J. Knorr</i> 9/3/2024

09/27/2024

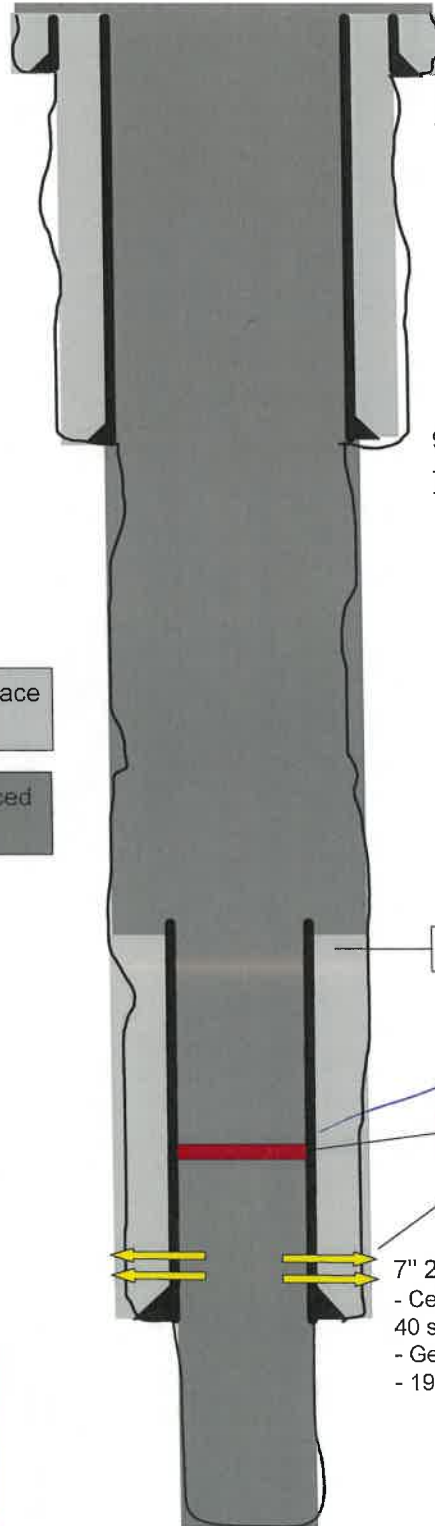
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TERRA SOUTH ALTA 7526

Proposed P&A

(as of 04/26/24)

Sea Level @ 2221 ft



13-3/8" 48# H-40 csg @ 32'
 - Cemented to surface with 26 sx neat+2% CaCl

9-5/8" 36# H-40 csg @ 2016'
 - Cemented to surface with 350 sx (605 cu ft),
 7563 lbs Gilsonoue+2% CaCl

Light grey fill indicates cement in place during well construction.

Dark grey fill indicates cement placed during well abandonment

CBL TOC 4905'

DEEP FORMATION BOUNDARY ✓

CIBP ~5700'

Perfs 5832 - 5932' at 2 shots / ft in the Chert formation

7" 23# J-55 csg from 0 - 5955'
 - Cemented with 75 sx (125cu ft) neat+ 1563 # Gilsonite &
 40 sx latex cmt +500 lb Gilsonite.
 - Gel drilling mud to surface.
 - 1970 CBL shows TOC at 4905'

Tully Lime 5361 - 5397'
Shale 5397 - 5771'
Onodaga Lime 5771 - 5819'
Chert 5819 - 5951'
Shale 5951 - 5963'
Oriskany 5963 - 6089'
Helderberg Lime 6089 - 6137'

6-1/4" Openhole
 TD 6137'

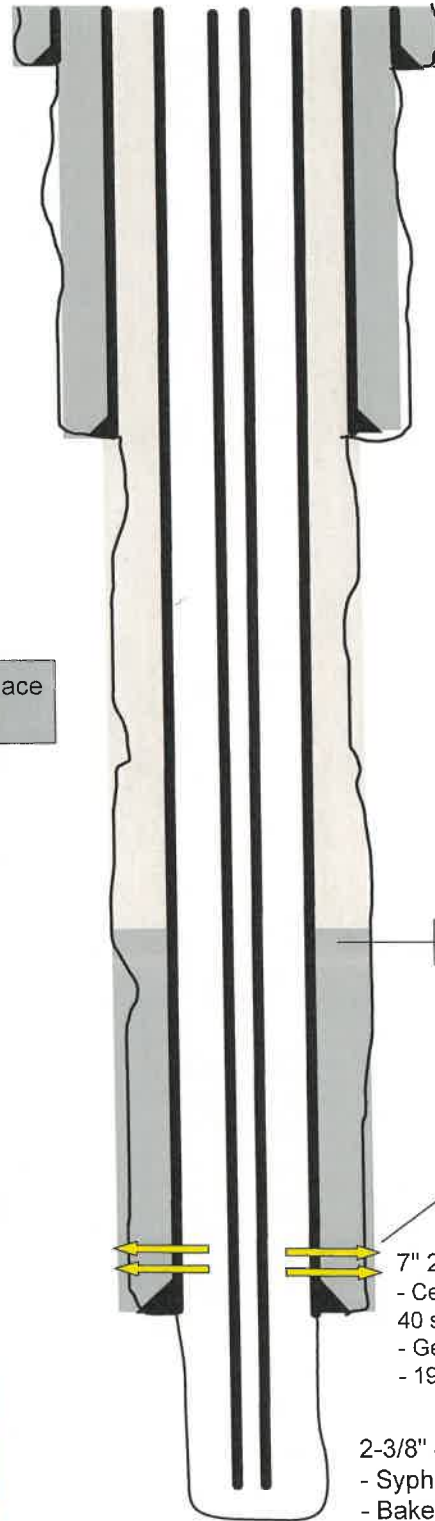
~ not to scale ~

TERRA SOUTH ALTA 7526

Prior to P&A

(as of 04/26/24)

Sea Level @ 2221 ft



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9-5/8" 36# H-40 csg @ 2016'
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Light grey fill indicates cement in place during well construction.

Tully Lime 5361 - 5397'
Shale 5397 - 5771'
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Helderberg Lime 6089 - 6137'

CBL TOC 4905'

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Perfs 5832 - 5932' at 2 shots / ft in the Chert formation

7" 23# J-55 csg from 0 - 5955'
- Cemented with 75 sx (125cu ft) neat+ 1563 # Gilsonite &
40 sx latex cmt +500 lb Gilsonite.
- Gel drilling mud to surface.
- 1970 CBL shows TOC at 4905'

2-3/8" 4.6# J-55 csg @ 6113'
- Syphon string
- Baker model "J" ported seating nipple and Baker model
"L" sliding sleeve - sliding sleeve is 437 ft off bottom.

6-1/4" Openhole
TD 6137'



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

4707700146P

Map Square 170-127

Quadrangle Kingwood

WELL RECORD

Rotary
Spudder
Cable Tools
Storage

Permit No. Pres. - 146

Oil or Gas Well Gas
(KIND)

Company <u>Atlantic Seaboard Corporation</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>P. O. Box 1273, Charleston, W. Va. 25325</u>				
Farm <u>Clinton S. Knight</u> Acres <u>450 3/4</u>	Size			Kind of Packer
Location (waters) <u>Madison Run</u>	<u>16</u>			
Well No. <u>X-76-S-7526</u> Elev. <u>2226.33</u>	<u>13 3/8"</u>	<u>32'</u>	<u>32'</u>	
District <u>Union</u> County <u>Preston</u>	<u>10</u>			Size of
The surface of tract is owned in fee by <u>Clinton S. Knight</u>	<u>9 5/8"</u>	<u>2016'</u>	<u>2016'</u>	
Address <u>Amboy, W. Va.</u>	<u>7"</u>	<u>5955'</u>	<u>5955'</u>	Depth set
Mineral rights are owned by <u>Clare E. Knight</u>	<u>5 3/16</u>			
Address <u>Amboy, W. Va.</u>	<u>4 1/2</u>			
Drilling commenced <u>July 31, 1970</u>	<u>3</u>			Perf. top (See
Drilling completed <u>August 18, 1970</u>	<u>2 3/8"</u>	<u>6113'</u>	<u>6113'</u>	Perf. bottom <u>Reverse</u>
Date Shot From To	Liners Used			Perf. top <u>Side</u>
With				Perf. bottom

Open Flow /10ths Water in _____ Inch
 /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock Pressure _____ lbs. _____ hrs.
 Oil _____ bbls. 1st 24 hrs.
 WELL ACIDIZED (DETAILS) (See Reverse Side)
 WELL FRACTURED (DETAILS)

Attach copy of cementing record.
 CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
 Amount of cement used (bags) (See Reverse Side)
 Name of Service Co. Halliburton
 COAL WAS ENCOUNTERED AT None FEET _____ INCHES
 _____ FEET _____ INCHES
 _____ FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 21. M
 ROCK PRESSURE AFTER TREATMENT 1560 HOURS 1 hour
 Fresh Water _____ Feet _____ Salt Water _____ Feet _____
 Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Shale and Siltstone			0	5361	Measured	From KB	
Tully Lime			5361	5397			
Shale			5397	5771			
Onondaga Lime			5771	5819			
Chert			5819	5951	Gas		
Shale			5951	5963			
Oriskany Sand			5963	6089	Gas		
Heiderberg Lime			6089				
Total Depth				6137			

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(over)

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
NOTE:							
13 3/8"							48#/ft., H-40, casing cemented to surface with 26 sacks of neat cement plus 2% CaCl. July 31, 1970.
9 5/8"							36#/ft., K-55, casing cemented to surface with 605 cubic feet regular neat cement mixed with 7563 lbs. of Gilsonite plus 2% CaCl. August 5, 1970.
7"							23#/ft., K-55, Seal-lok casing cemented in 1000' with 125 cubic feet regular neat cement with 1563 lbs. Gilsonite added. 40 sacks of Halliburton latex cement with 500 lbs. Gilsonite added. August 14, 1970. Gel drilling mud to surface. Casing set about 6 feet in Oriskany sand.
2 3/8"							4.6#/ft., J-55, Seal-lok tubing run to T.D. (1) Baker Model "J" ported seating nipple, (1) Baker BFC Model "L" sliding sleeve. Sliding sleeve is 437' off bottom. August 18, 1970.
Perforations:							
							Chert (5832' - 5932') with 200, 3 1/2" glass jets shots. Oriskany open hole. Basin Surveys Inc. August 16, 1970.
Stimulation:							
							Halliburton stimulated both the Oriskany and Chert pays using (1) one drum Barbid B-11, 1500 gallons 25% HCL acid and 760 barrels of fresh water. Average pressure 1100#, average pump rate 19 BPM. Well on Vac. after treatment. October 5, 1970.
Logging:							
							Gamma Ray - PDC (6146' - 5250') August 16, 1970. Cement Bond (5970' - 4700')

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Date December 17, 19 70
APPROVED Atlantic Seaboard Corp Owner
By [Signature] (Title) Sup

09/27/2024



Select County: (077) Preston (Check All)

Select datatypes: Location Production Plugging
 Owner/Completion Stratigraphy Sample
 Pay/Show/Water Logs Btm Hole Loc

Enter Permit #: 00146

[Table Descriptions](#)
[County Code Translations](#)
[Permit-Numbering Series](#)
[Usage Notes](#)
[Contact Information](#)
[Disclaimer](#)
[WVGES Main](#)
["Pipeline-Plus" New](#)

WV Geological & Economic Survey:

Well: County = 77 Permit = 00146 [Link to all digital records for well](#)

Report Time: Thursday, September 26, 2024 2:23:45 PM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4707700146	Preston	146	Union	Rowlesburg	Kingwood	39.333724	-79.630434	618036.2	4354705.7

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4707700146	8/18/1970	Original Loc	Completed	Clinton S Knight		7526	Clinton S Knight	AS-1096	Clare E Knight	Atlantic Seaboard			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT
4707700146	8/18/1970	7/31/1970	2226	Ground Level	Terra Alta	Helderberg	Oriskany	Miscellaneous Well	Unsuccessful	Storage	Rotary	Acidized	6137		6137		0	21000	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4707700146	8/18/1970	Horizon	Storage	Vertical		Oriskany	0	Oriskany	0	0	0	0	
4707700146	8/18/1970	Horizon	Storage	Vertical	5832	Huntersville Chert	5932	Huntersville Chert	0	0	0	0	

There is no Production Gas data for this well

There is no Production Oil data for this well ** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4707700146	Original Loc	Driller's Tully	Electric Log	5344	Reasonable	36	Reasonable	2226	Ground Level
4707700146	Original Loc	Driller's Tully	Well Record	5361	Reasonable	36	Reasonable	2226	Ground Level
4707700146	Original Loc	Onondaga Ls	Well Record	5771	Reasonable	48	Reasonable	2226	Ground Level
4707700146	Original Loc	Onondaga Ls	Electric Log	5778	Reasonable	20	Reasonable	2226	Ground Level
4707700146	Original Loc	Huntersville Chert	Electric Log	5798	Reasonable	148	Reasonable	2226	Ground Level
4707700146	Original Loc	Huntersville Chert	Well Record	5819	Reasonable	132	Reasonable	2226	Ground Level
4707700146	Original Loc	Oriskany	Electric Log	5946	Reasonable	124	Reasonable	2226	Ground Level
4707700146	Original Loc	Needmore Sh	Past WVGES Staff Geologist	5951	Reasonable	12	Reasonable	2226	Ground Level
4707700146	Original Loc	Oriskany	Well Record	5963	Reasonable	126	Reasonable	2226	Ground Level
4707700146	Original Loc	Helderberg	Electric Log	6070	Reasonable		Qstnble Pick	2226	Ground Level
4707700146	Original Loc	Helderberg	Well Record	6089	Reasonable	0	Reasonable	2226	Ground Level

Wireline (E-Log) Information:

* Scanned/Raster Log Information:

API	STATUS	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	IN
4707700146	Regular Entry	4700	6120		G*	Y	5250	6120											4700	6117	N	Y

Scanned/Raster Comment: *logs: CCL, perf, pipe amp, formation time, cement bond

* There is no Digitized/LAS Log data for this well

Downloadable Log Images/Data: We advise you to save the scanned log or digitized log file(s) to your PC for viewing. To do so, right-click the file of interest and select the save option. Then you can direct the file to a location of your choice. Please note the scanned log images vary in size and some may take several minutes to download.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click [here](#)

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other¹
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other¹
- p perforation depth control or perforate

¹other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

09/27/2024

4707700146P

WW-4A
Revised 6-07

1) Date: 08/26/24
2) Operator's Well Number
Terra Alta South 7526

3) API Well No.: 47 - 077 - 00146

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

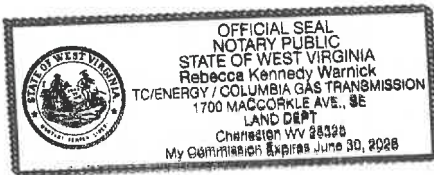
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Betty Albrecht and John Murray Calhoun</u>	Name <u>Not operated</u>
Address <u>PO Box 38</u>	Address _____
<u>Hardwood MD, 20776-0038</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Gayne Knitowski</u>	(c) Coal Lessee with Declaration
Address <u>21 Energy Way</u>	Name _____
<u>Gormanian, WV 26720</u>	Address _____
Telephone <u>304.546.8171</u>	_____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

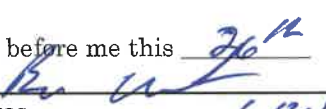
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

	Well Operator	<u>Columbia Gas Transmission</u>
	By:	<u>Maria Medvedeva</u>
	Its:	<u>Senior Wells Engineer - Well Engineering and Technology</u>
	Address	<u>1700 MacCorkle Ave SE</u> <u>Charleston, WV 25314</u>
	Telephone	<u>304-410-4313</u>

Subscribed and sworn before me this 26th day of August

My Commission Expires 6/30/28


 Notary Public
 WV Department of Environmental Protection

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 depprivacyoffier@wv.gov.

09/27/2024

4707700146P

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



August 26, 2024

Albrecht Betty and John Murray Calhoun
PO Box 38
Hardwood MD, 20776-0038

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 Terra Alta South 7526 (API 47-077-00146).

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
Office of Oil and Gas

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SEP 11 2024
WV Department of
Environmental Protection

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Harwood, MD 20776

OFFICIAL USE

Certified Mail Fee	\$4.85
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

Sent To: Albrecht Betty & John Calhoun
Street and Apt. No., or PO Box No.
City, State, ZIP+4®: TAS 7526

0726 04
Postmark Here
AUG 27 2024
08/27/2024

DATE 7022 2410 0002 6396 3140

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 <input checked="" type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>John Calhoun</u></p> <p>C. Date of Delivery <u>9/4/24</u></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: <u>Betty Albrecht & John Calhoun</u> <u>PO Box 38</u> <u>Hardwood, MD 20776</u></p>	<p>3. Service Type</p> <p><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>
<p>2. Article Number (Transfer from service label) 7022 2410 0002 6396 3140</p>	<p>Mail Restricted Delivery</p>

9590 9402 7630 2122 5682 93

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

www.tcenergy.com

09/27/2024

SURFACE OWNER WAIVER

Operator's Well
Number

Terra Alta South 7526

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 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
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date	_____	Name
Signature		By	_____
		Its	_____
			Date
		Signature	Date

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SEP 11 2024

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4707700146P

WW-4B

API No. 47-077-00146

Farm Name _____

Well No. Terra Alta South 7526

Coal not operated

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than 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 operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed plugging work order. 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.

Date: _____

By: _____

Its _____

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SEP 11 2024
WV Department of
Environmental Protection

09/27/2024

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

Operator Name Columbia Gas Transmission OP Code 307032

Watershed (HUC 10) Madison Run Quadrangle Rowlesburg, 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: fresh water, brine, cement returns, bentonite gel

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number 34-167-23862)
- Reuse (at API Number _____)
- Off Site 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: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

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

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Subsoils

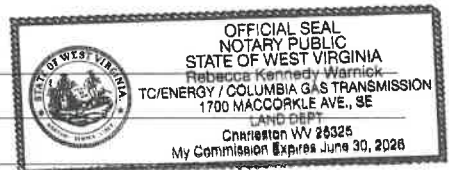
-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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 *Maria Medvedeva*
Company Official (Typed Name) Maria Medvedeva
Company Official Title Senior Wells Engineer - Well Engineering and Technology



Subscribed and sworn before me this 26th day of August, 2024

[Signature]
My commission expires 6/30/26

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Of Oil and Gas
29 SEP 11 2024
Notary Public
Department of
Production

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

For wetland areas: Annual Rye (40 lbs/acre) until indigenous plants re-establish cover.

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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WV Department of
Environmental Protection

Title: *Inspector* Date: *9/3/2024*

Field Reviewed? (*x*) 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): Madison Run Quad: Rowlesburg, WV
Farm Name: _____

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. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment.
- Accidental release from well fluids and spills from construction equipment are the only sources of contaminants to groundwater.
- All 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. 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.

Madison Run is at a distance of 0.43 miles W.

The Carriage House Bakery and Foods (WV9939167) is the closest Well Head Protection Area at a distance of 3 miles NE from discharge area.

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

N/A

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SEP 11 2024
WV Department of
Environmental Protection

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 meetings, groundwater protection will be a topic of discussion.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubricants will be stored on site, but located within secondary containment. Accidental release from well fluids and spills from construction equipment are the only sources of contaminants to groundwater.

All construction and well servicing equipment will be monitored and inspected daily for leaks or spills.

Signature: *M. [Signature]*

Date: 08/26/24

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SEP 11 2024
WV Department of
Environmental Protection

09/27/2024

WV DEP Reclamation Plan - Site Detail

Terra Alta South well 7526 (API 47-077-00146)

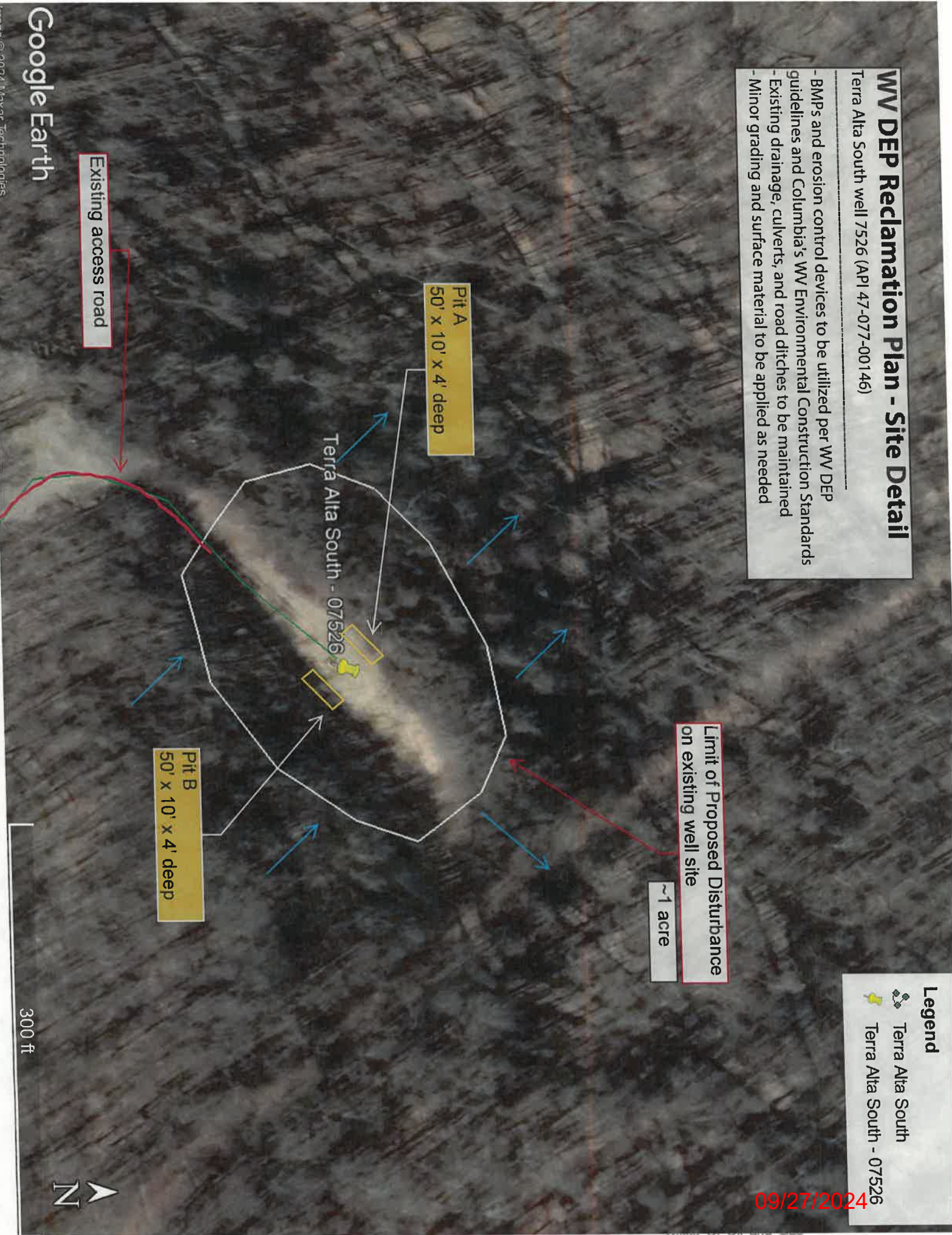
- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and surface material to be applied as needed

Legend

- Terra Alta South
- Terra Alta South - 07526

09/27/2024

SEP 11 2024



Google Earth

Image © 2024 Maxar Technologies

WV DEP Reclamation Plan - Overview

Terra Alta South well 7526 (API 47-077-00146)

- 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

- Legend**
- Terra Alta South
 - Terra Alta South - 07526

09/27/2024

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Google Earth

Image © 2024 Airbus

4707700146P

(NEWBURG)



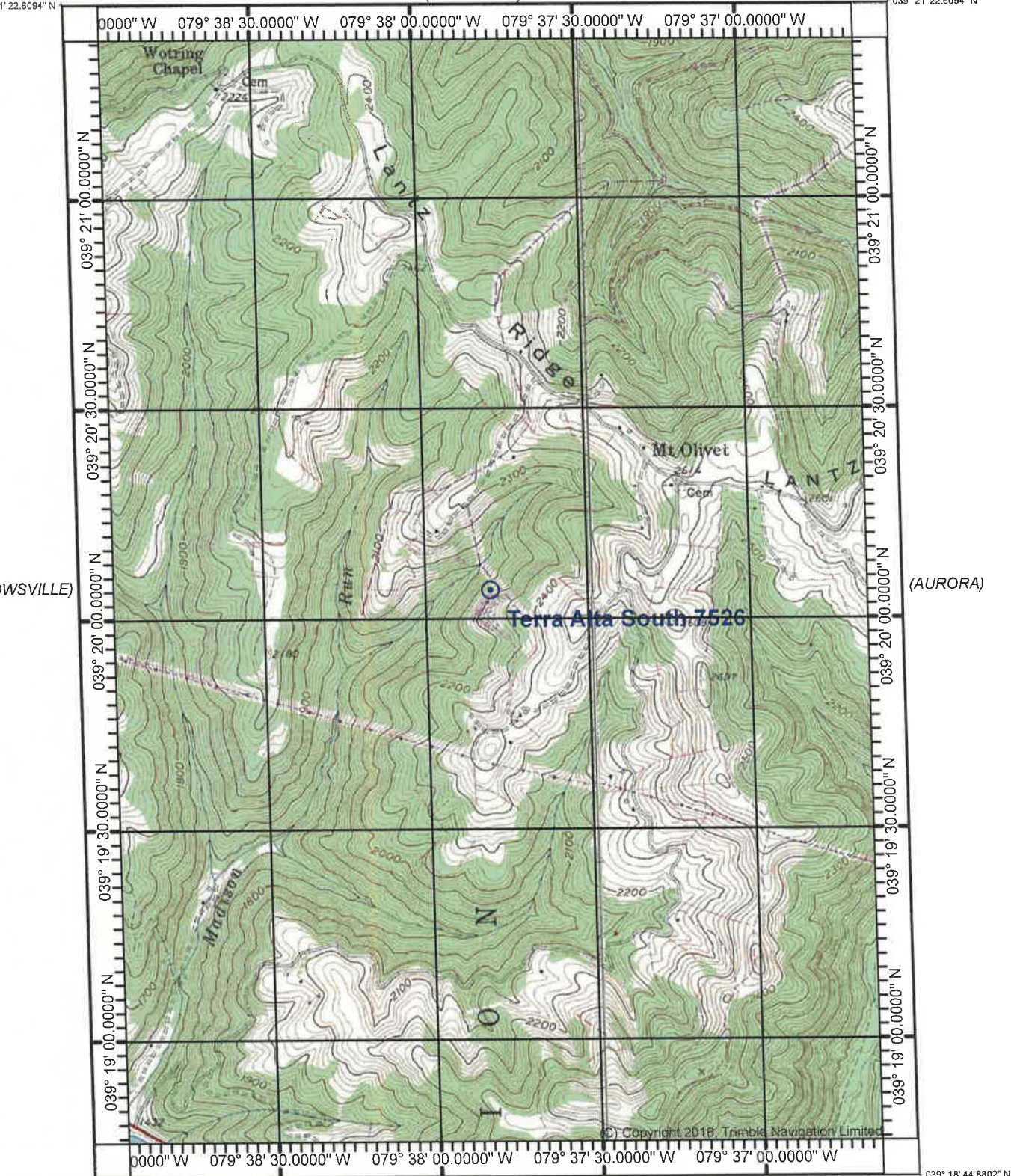
ROWLESBURG QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES (TERRA ALTA)

(KINGWOOD)

079° 38' 57.8405" W 079° 38' 00.0000" W 079° 37' 30.0000" W 079° 37' 00.0000" W 079° 36' 37.6343" W
039° 21' 22.6094" N 039° 21' 00.0000" N 039° 20' 30.0000" N 039° 20' 00.0000" N 039° 19' 30.0000" N 039° 19' 00.0000" N

(FELLOWSVILLE)

(AURORA)



039° 18' 44.8802" N 079° 38' 57.8405" W (ST GEORGE) SCALE 1:24000 Printed: Tue Jun 18, 2024 079° 36' 37.6343" W 039° 18' 44.8802" N

(COLEBANK)

(LEAD MINE)

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

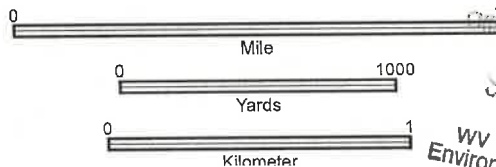
North American 1983 Datum (NAD83)

To place on the predicted North American
1927 move the projection lines 11M N and
19M E

Declination



GN 0.87° E
MN 9.25° W



CONTOUR INTERVAL 20 FT

39079-C5-TM-024
ROWLESBURG, WV
JAN 1, 1976
WV Department of
Environmental Protection
09/27/2024

4707700146

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-077-00146 WELL NO.: 7526

FARM NAME: Clinton S. Knight, et al

RESPONSIBLE PARTY NAME: Columbia Gas Transmission LLC

COUNTY: Preston DISTRICT: Union

QUADRANGLE: Rowlesburg, WV

SURFACE OWNER: John Murray Calhoun, Betty Albrecht

ROYALTY OWNER: Clinton S. Knight

UTM GPS NORTHING: 4354745.458

UTM GPS EASTING: ~~61093.410~~ GPS ELEVATION: 676.410

618093.410

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS : Post Processed Differential _____
Real-Time Differential

Mapping Grade GPS _____: Post Processed Differential _____
Real-Time Differential _____

- Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

	Wells Engineer	08/26/24
Signature	Title	Date

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Office Of Oil and Gas
SEP 11 2024
WV Department of
Environmental Protection

09/27/2024

4707700146P

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



September 10, 2024

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

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

Terra Alta South 7526 (API 47-077-00146)

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

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

If you have questions, feel free to call.

Regards,

A handwritten signature in black ink, appearing to read "Maria Medvedeva", written over a light blue background.

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 11 2024

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09/27/2024

Ripley	7297	47-035-00495-0000 ✓	Plug and Abandon well and line	\$	✓ 100.00 Pd
Terra Alta	7423	47-077-00115-0000 ✓	Plug and Abandon well and line	\$	✓ 100.00 Pd
Terra Alta South	7526	47-077-00146-0000 ✓	Plug and Abandon well	\$	✓ 100.00 Pd
Terra Alta South	7527	47-077-00155-0000 ✓	Plug and Abandon well and line	\$	✓ 100.00 Pd
Terra Alta South	7536	47-077-00156-0000 ✓	Plug and Abandon well and line	\$	✓ 100.00 Pd

4707700146P

Company – TC Energy (Legacy - Columbia Gas Transmission)

Designated Agent – Maria Medvedeva

Billing Address – 1700 MacCorkle Ave SE; Charleston WV 25314

Contact number – 304-410-4313

Contact email – maria_medvedeva@tcenergy.com

Thank you very much for your help.

Maria (Masha) Medvedeva

Senior Wells Engineer – Well Engineering & Technology

Gas Storage

maria_medvedeva@tcenergy.com

M: +1-304-410-4313



1700 MacCorkle Ave SE

Charleston, WV 25314

TCEnergy.com

09/27/2024