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, October 3, 2024

WELL WORK PLUGGING PERMIT
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for 7536
47-077-00156-00-00

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:
Farm Name: BUCKLEW, NOAH A
U.S. WELL NUMBER: 47-077-00156-00-00
Vertical Plugging
Date Issued: 10/3/2024

10/04/2024

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.

10/04/2024

WW-4B
Rev. 2/01

1) Date 08/26, 2024
2) Operator's
Well No. Terra Alta South 7536
3) API Well No. 47- 077 - 00156

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 X / Liquid injection ____/ Waste disposal ____/
(If "Gas, Production ____ or Underground storage X) Deep X / Shallow ____

5) Location: Elevation 2075 Watershed Wolf Run of Saltlick Creek
District Union County Preston Quadrangle Terra Alta, WV

6) Well Operator Columbia Gas Transmission LLC
Address 1700 MacCorklle SE
Charleston, WV 25314

7) Designated Agent Maria Medvedeva
Address 1700 MacCorklle SE
Charleston, WV 25314

8) Oil and Gas Inspector to be notified
Name Gayne Knitowski
Address PO Box 108
Gormania, WV 26720

9) Plugging Contractor
Name Next Lvl Energy, LLC
Address 736 W Ingomar Rd, Units 268
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.

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

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

10/04/2024

Objective: Plug and Abandon | **WORK TYPE:**

TITLE:	Plug and Abandon					
FIELD:	Terra Alta South	**WELL:**	7536			
STAT:	WV	**SHL (Lat/Long):**	39.377354	-79.59464	**API:**	47-077-00156
TWP:	Union	**BHL (Lat/Long):**	39.377354	-79.59464	**CNTY:**	Preston

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. Historic notes indicate tubing may have a blockage - fluids or hydrates.

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 remaning annuli with FW if able. Document volumes.
12. Kill well with 11.1 pg viscosified fluid. Verify tubing is open. 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 + anular). 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 4900'
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 4900
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 5100' then spot a second balanced cmt 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. Obtain CBL from CIBP to surface. Keep hole full. Provide digital copy to WET engineer.
    Consult with WE&T engineer on results for plan forward. No historic CBL log available. Calculated TOC is 4020'.
27. TIH with work string and install balanced cement plugs from last cement plug to TOC behind 7" casing (~4000').
28. ND BOPE and remove A-section.
29. Weld pulling nipple on 7" casing and dress top of 9-5/8" to accommodate BOPE.
30. Strip 13" 3M BOPE (blind + pipe + annular) over stub and NU to 9-5/8" csg. Will need kill/choke outlets below blind rams.
31. Function test and attempt to pressure test low (250 psig) and high (2500 psig).
32. Wireline freepoint and cut / pull all 7" casing that is free.
33. TIH with work string and install balanced cement plugs from last cement plug to 2100'.
34. POOH to above cement, reverse circulate to clean tubulars, pull 5 joints, close pipe rams, and WOC a minimum of 4 hrs.
35. RIH and tag cement.
36. Obtain CBL on the 9-5/8" casing to surface if cement is not observed at 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. Volumetric calculation confirms TOC at surface.
37. TIH with work string and install balanced cement plug from top of last cement plug to surface.
38. ND BOPE.
39. Grout all annuli as deep as possible.
40. RDMO service rig.
41. Erect monument per state regulations. Reclaim location and lease road.
42. P&A complete.
43. Notify REG / WE&T that well is back in-service.

PREPARED BY:	Maria Medvedeva	REVIEWED BY:	James Amos	APPROVED:	Brent Criser
PREP DATE:	4/27/2024				9/3/2024

WELL JOB PLAN — **STS Well Engineering & Technology** — PAGE 1 — **DATE JOB PREPARED:** 4/27/2024

Objective: Plug and Abandon — **WORK TYPE:**

TITLE:	Plug and Abandon			**LEASE #:**	90486
FIELD:	Terra Alta South	**WELL ID:**	7536	**API:**	47-077-00156
STATE:	WV	**SHL (Lat/ Long)**	39.377354	-79.59464	**CNTY:** Preston
DIST/TWP:	Union	**BHL (Lat/Long)**	39.377354	-79.59464	**WELLLINE #:** X76SW7536

EXISTING TUBULAR CONFIGURATION	OD (inches)	WEIGHT (PPF)	GRADE	THREAD	DEPTH (ft) TOP	DEPTH (ft) BOTTOM
Conductor	13 3/8	48	H-40		0	32
Surface	9 5/8	36	K-55		0	2089
Production	7	23	K-55	Seal-Lok	0	5138
Tubing	2 3/8	4.6	J-55	Seal-Lok	0	5305 *
Tubing	* 16 perforated pup jt on bottom, Baker #800-20 1.81" Model "J" 2-3/8" ported seating nipple, 13 full jts tubing, Baker #810-04 1.87" Model "L" sliding sleeve, 158 full jts, 10 ft pup jt, xover nipple, hanger - top of sliding sleeve should be at ~4884 ft					
Perforations	Chert perfs 5010 - 5090 glass jet 2 shot / ft density, 6-1/4" OH below 7" casing					
Wellhead	API 3k, 7" flowstring x 9-5/8" support, 2" 8rd wellhead connection, tbg hanger. 2014 found a leak in upper injection port on the 11" flange on the tubing spool. See Well Summary Report for additional information.					

FORMATION	NOTES	TOP (ft)	BOTTOM (ft)
Tully Lime		4540	4565
Shale		4565	4985
Onondaga		4985	5004
Chert		5004	5136
Shale		5136	5145
Oriskany		5145	5276
Helderberg		5276	-
TD		5319	5319

CEMENT INFO		Calc TOC (ft)
13 3/8	Cmt'd to surface w/ 25 sacks Class A cement to surface.	0
9 5/8	Cmt'd to surface w/ 605 sacks Gilsonite Class A Cement.	0
7	Cmt'd w/ 120 cu ft neat as lead and 375 gals Cealment as tail.	4020

ELEVATIONS (ft)

KB-GL:
KB-RF:
GL: 2078

MISC INFORMATION

REFER TO WELL SUMMARY RPT, WBD for Wellbore Schematic, ELOG, etc tabs in this workbook for additional information

DIRECTIONAL WELL PROFILE (as applicable)

Vertical Well

Kill Fluid Calculation ** Note that kill fluid calculation tabs are hidden*

Maximum calculated bottom-hole pressure (reference only):		2717	psig	** input*
Maximum storage field surface pressure (MAOP):		2350	psig	** input*
Well TD:		5319	ft TVD	** input*
Top of storage zone:		5104	ft TVD	** input*
Calculated maximum BH pressure at top of zone:		2687	psig	** output Kill Fluid (TOZ)*
Kill fluid density at top of zone @:	150 psi OB	10.69	ppg	** output Kill Fluid (TOZ)*
Proposed depth of BP:		4900	ft TVD	** input*
Calculated maximum BH pressure at depth of BP:		2674	psig	** output Kill Fluid (BP)*
Kill fluid density at depth of BP @:	150 psi OB	11.08	ppg	** output Kill Fluid (BP)*
Required minimum kill fluid density:		11.1	ppg	** greater of the two*

Current AOF:	3,814 MCF/D
Top historical AOF:	4,377 MCF/D
Last MVRT:	None available
SBT:	None available

PROPOSED YEAR:	2025	**ERCB PERMIT REQD:**	YES____	NO__X__	(Internal) PDS Required: YES_____ NO_____
		DT. APPLIED:	ISSUED:		
PREPARED BY:	Maria Medvedeva	**REVIEWED BY:**	James Amos		**APPROVED:** Brent Criser
PREP DATE:	4/27/2024				8/13/2024

10/04/2024

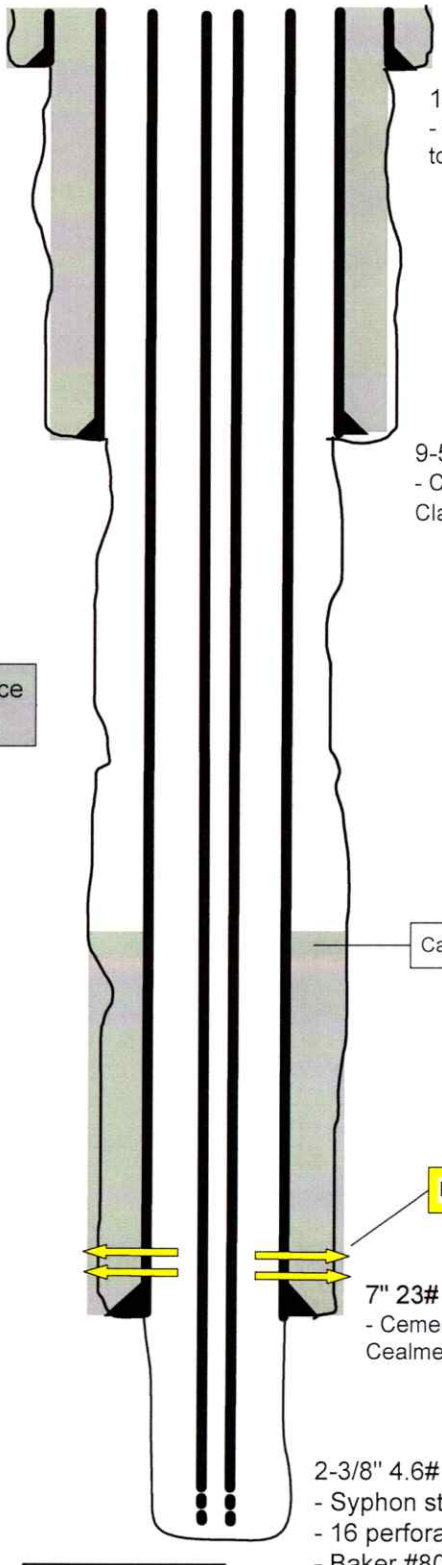
~ not to scale ~

TERRA SOUTH ALTA 7536

Prior to P&A

(as of 04/27/24)

Sea Level @ 2078 ft



13-3/8" 48# H-40 csg @ 32'
- Cemented to surface w/ 25 sacks Class A cement to surface.

9-5/8" 36# H-40 csg @ 2089'
- Cemented to surface w/ 605 sacks Gilsonite Class A Cement.

Light grey fill indicates cement in place during well construction.

Calculated TOC 4020'

Tully Lime 4540 - 4565'

Shale 4565 - 4985'

Onodaga Lime 4985 - 5004'

Chert 5004 - 5136'

Shale 5136 – 5145'

Oriskany 5145 - 5276'

Helderberg Lime 5276 - 5319'

Perfs 5010 - 5090' at 2 shots / ft in the Chert formation

7" 23# J-55 csg from 0 – 5138'
- Cemented with w/ 120 cu ft neat as lead and 375 gals Cealment as tail.

2-3/8" 4.6# J-55 csg @ 5305
- Syphon string
- 16 perforated pup jt on bottom
- Baker #800-20 1.81" Model "J" 2-3/8" ported seating nipple, 13 full jts tubing, Baker #810-04 1.87" Model "L" sliding sleeve, 158 full jts, 10 ft pup jt, xover nipple, hanger - top of sliding sleeve should be at ~4884 ft

6-¼" Openhole
TD 5319'

10/04/2024

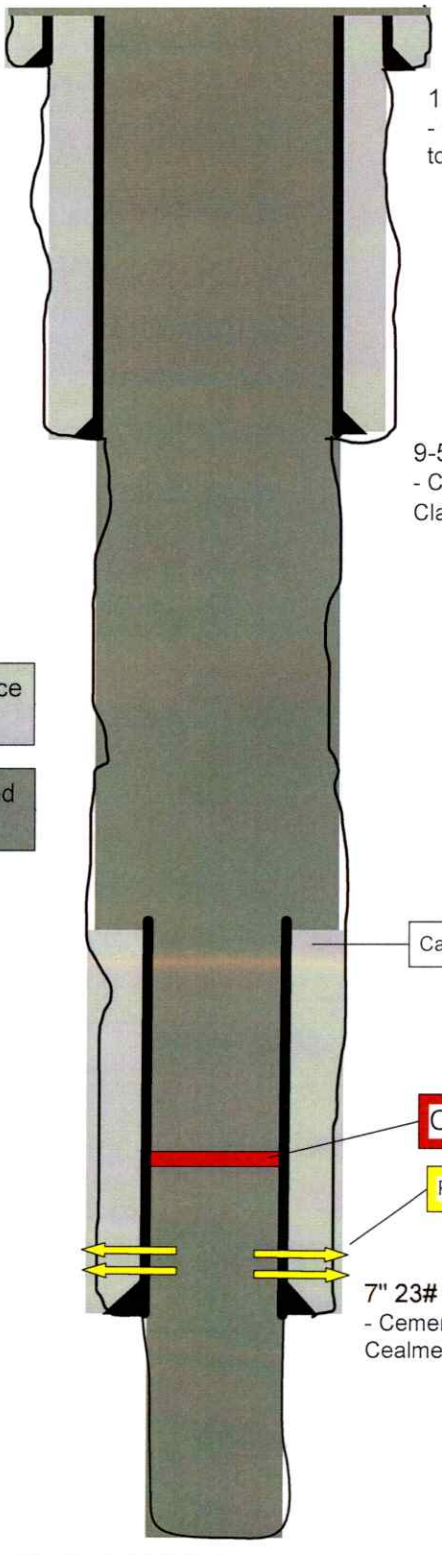
~ not to scale ~

TERRA SOUTH ALTA 7536

Proposed P&A

(as of 04/27/24)

Sea Level @ 2078 ft



13-3/8" 48# H-40 csg @ 32'
- Cemented to surface w/ 25 sacks Class A cement to surface.

9-5/8" 36# H-40 csg @ 2089'
- Cemented to surface w/ 605 sacks Gilsonite Class A Cement.

Light grey fill indicates cement in place during well construction.

Dark grey fill indicates cement placed during well abandonment

Calculated TOC 4020'

CIBP ~4900'

Perfs 5010 - 5090' at 2 shots / ft in the Chert formation

7" 23# J-55 csg from 0 – 5138'
- Cemented with w/ 120 cu ft neat as lead and 375 gals Cealment as tail.

Tully Lime 4540 - 4565'

Shale 4565 - 4985'

Onodaga Lime 4985 - 5004'

Chert 5004 - 5136'

Shale 5136 – 5145'

Oriskany 5145 - 5276'

Helderberg Lime 5276 - 5319'

6-¼" Openhole
TD 5319'

10/04/2024

Form OG-10

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

WELL RECORD

Rotary [X]
Spudder [ ]
Cable Tools [ ]
Storage [X]

Quadrangle Kingwood
Permit No. Pres. 156
Oil or Gas Well Gas (KIND)

Company Columbia Gas Transmission Corporation
Address P. O. Box 1067, Elkins, West Virginia
Farm Noah A. Bucklew Acres 77
Location (waters) Kinsinger Run
Well No. X-76-S 7536 Elev. 2071
District Union County Preston
The surface of tract is owned in fee by
Address
Mineral rights are owned by
Address
Drilling commenced April 24, 1971
Drilling completed May 6, 1971
Date Shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Show Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) (See Reverse Side)
WELL FRACTURED (DETAILS)

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size	Ground Level		
16			Kind of Packer
13 3/8"	32'	32'	
10			Size of
~~8 1/4~~ 9 5/8"	2089'	2089'	
~~6 5/8~~ 7"	5138'	5138'	Depth set
5 3/16			
4½			
3			Perf. top (See Revers
2 3/8"	5305'	5305'	Perf. bottom Side)
Liners Used			Perf. top
			Perf. bottom

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
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 1.278 M
ROCK PRESSURE AFTER TREATMENT 1900# HOURS 1
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'	4540'	Measured	from K.B.	
Tully Lime			4540'	4565'			
Shale			4565'	4985'			
Onondaga Lime			4985'	5004'			
Chert			5004'	5136'			
Shale			5136'	5145'			
Oriskany Sand			5145'	5276'			
Helderberg Lime			5276'				
Total Depth				5319'			

(over)

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 25 sacks of neat cement plus 2% CaCl. April 24, 1971. 32' ground level, 49' kelly bushing.

9 5/8" 36#/ft., K-55, casing cemented to surface with 605 sacks of Gilsonite plus 2% CaCl. April 28, 1971. Casing set at 2089' ground level, 2106' kelly bushing, 2086' threads off, 2101' threads on.

7" 23#/ft., K-55 Seal-lok casing cemented in 1000' with 120 cu. ft. of regular neat cement with 1890 lbs. of Gilsonite added. Tailed in with 375 gallons Cealment. May 3, 1971. Gel drilling mud to surface. Casing set 6' in Oriskany sand. Casing set at 5138' ground level, 5155' kelly bushing, 5167' threads off, 5211' threads on.

2 3/8" 4.6#/ft., J-55, Seal-lok tubing run to total depth. (1) Baker Model "J" ported seating nipple, (1) Baker BFC Model "L" sliding sleeve. Sliding sleeve is 422' off bottom. May 6, 1971. 5305' ground level, 5824' kelly bushing, 5819' threads off, 5865' threads on.

Perforations:

Chert (5010'-5090') with 160, 3 1/2" glass jets shots. Oriskany sand, open hole. Basin Surveys Inc., May 5, 1971.

Logging:

Gamma Ray - P.D.C. (4500'-5318') May 5, 1971.

Stimulation:

Halliburton stimulated both the Oriskany and Chert pays at separate times.

Oriskany: (1) drum Baroids B-11, 500 gallons 20% HCL acid, 30 gallons Pen-5, 2700# average pressure, 7 BPM, total volume 650 barrels of fresh water.

Set Baker retrievable bridge plug at 5120'.

Chert: (1) drum Baroids B-11, 500 gallons 20% HCL acid, 30 gallons Pen-5, 2600# average pressure, 9 BPM, total volume 750 barrels of fresh water.

SEP 12 2024

Date January 20, 1972

APPROVED Columbia Gas Transmission Corporation, Owner

By [signature]

(Title) Production and Storage Superintendent

10/04/2024

WW-4A
Revised 6-07

1) Date: 08/26/24
2) Operator's Well Number
Terra Alta South 7536

3) API Well No.: 47 - 077 - 00156

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: John Short
Address: 600 East State Ave
Terra Alta, WV 26764-1428
(b) Name:
Address:
(c) Name:
Address:

5) (a) Coal Operator
Name: Not operated
Address:
(b) Coal Owner(s) with Declaration
Name:
Address:
Name:
Address:
(c) Coal Lessee with Declaration
Name:
Address:

6) Inspector: Gayne Knitowski
Address: 21 Energy Way
Gormania, WV 26720
Telephone: 304.546.8171

RECEIVED
Office of Oil and Gas
SEP 12 2024
WV Department of
Environmental Protection

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

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Rebecca Kennedy Warnick
TC/ENERGY / COLUMBIA GAS TRANSMISSION
1700 MACCORKLE AVE., SE
LAND DEPT
Charleston WV 25325
My Commission Expires June 30, 2026

Subscribed and sworn before me this 26th day of August 2024
Notary Public
My Commission Expires 6/30/26

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.

10/04/2024

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

TC Energy

August 26, 2024

John Short
600 East State Ave
Terra Alta, WV 26764-1428

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 7536 (API 47-077-00156).

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

7022 2410 0002 6396 3157

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

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

Terra Alta, WV 26764

OFFICIAL USE

Certified Mail Fee	$4.85
Extra Services & Fees (check box, add fee as appropriate)	$4.10
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$9.85
Total Postage and Fees	$18.80

0726
04

AUG 27 2024 Postmark Here

08/27/2024

Sent To John Short

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

TAS 7536

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Office

SEP 1 3 2024

10/04/2024

USPS Tracking®

FAQs >

Remove ×

Tracking Number:

70222410000263963157

Copy Add to Informed Delivery (https://informeddelivery.usps.com/)

Latest Update

The customer has requested that the Postal Service redeliver this item on September 4, 2024 in TERRA ALTA, WV 26764.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Feedback

Processing at Destination

Redelivery Scheduled
TERRA ALTA, WV 26764
September 3, 2024

Available for Pickup
TERRA ALTA
103 N 4TH ST
TERRA ALTA WV 26764-9998
M-F 0900-1600; SAT 0900-1100
August 30, 2024, 9:35 am

Arrived at Post Office
TERRA ALTA, WV 26764
August 30, 2024, 9:30 am

Arrived at USPS Regional Destination Facility
WASHINGTON DC DISTRIBUTION CENTER
August 29, 2024, 1:46 am

In Transit to Next Facility

10/04/2024

August 28, 2024

Arrived at USPS Regional Facility
CHARLESTON WV PROCESSING CENTER
August 27, 2024, 6:52 pm

Departed Post Office
CHARLESTON, WV 25304
August 27, 2024, 4:42 pm

USPS in possession of item
CHARLESTON, WV 25304
August 27, 2024, 8:24 am

Hide Tracking History

What Do USPS Tracking Statuses Mean? (https://faq.usps.com/s/article/Where-is-my-package)

Text & Email Updates

USPS Tracking Plus®

Product Information

See Less

Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

FAQs

SURFACE OWNER WAIVER

Operator's Well Number Terra Alta South 7536

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.

_____ Date _____
Signature

FOR EXECUTION BY A CORPORATION,

Name _____
By _____
Its _____ Date _____

Signature Date

10/04/2024

WW-4B

API No. 47-077-00156
Farm Name
Well No. Terra Alta South 7536

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 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 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 _____

10/04/2024

WW-9
(5/16)

API Number 47 - 077 - 00156
Operator's Well No. Terra Alta South 7536

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) Wolf Run of Saltlick Creek Quadrangle Terra Alta, 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 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? 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.

RECEIVED
Office of Oil and Gas
SEP 12 2024
WV Department of
Environmental Protection

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 _____

Company Official (Typed Name) Maria Medvedeva

Company Official Title Senior Wells Engineer - Well Engineering and Technology

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Rebecca Kennedy Warnick
TC/ENERGY / COLUMBIA GAS TRANSMISSION
1700 MACCORKLE AVE., SE
LAND DEPT
Charleston WV 25325
My Commission Expires June 30, 2026

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

_____ Notary Public

My commission expires 6/30/26

10/04/2024

Form WW-9

Operator's Well No. Terra Alta South 7536

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:

Title: Inspector Date: 9/3/2024

Field Reviewed? (✓) Yes ( ) No

10/04/2024

WW-9- GPP
Rev. 5/16

Page _____ of _____
API Number 47 - 077 - 00156
Operator's Well No. Terra Alta South 7536

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): Wolf Run of Saltlick Creek Quad: Terra Alta, 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.

Wolf Run of Saltlick Creek is at a distance of 0.35 miles N.

The Carriage House Bakery and Foods (WV9939167) is the closest Well Head Protection Area at a distance of 2.12 miles SE from discharge area.

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

N/A

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

10/04/2024

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.

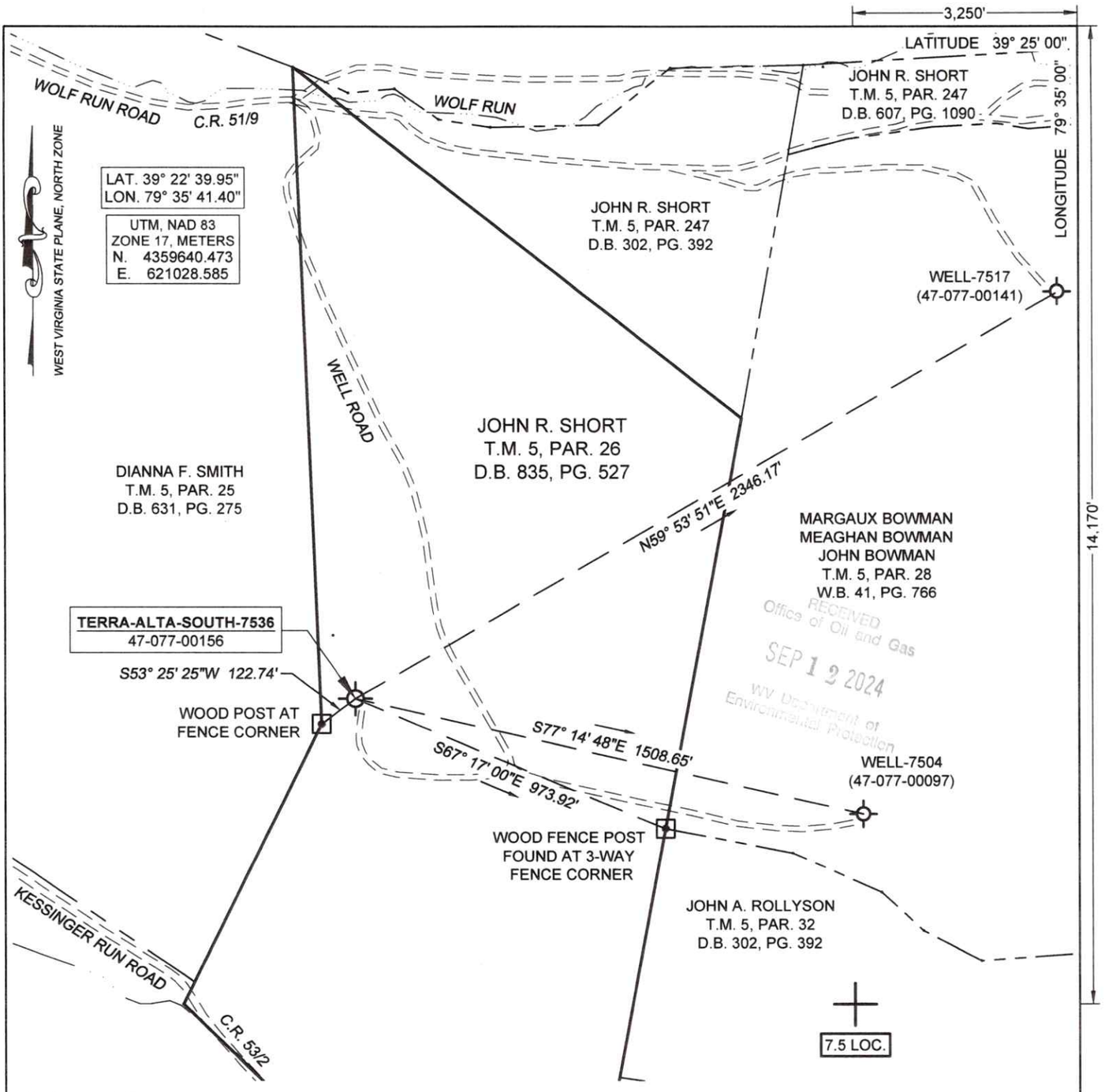
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

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: _____

Date: 08/26/24



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

FILE No. 2401-2345-017
DWG No. 2401-2345-017
SCALE 1"=400'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION TRIMBLE R12 GPS UNIT

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

(SIGNED) _____
RICHARD B. HENLINE PS #1984

RICHARD B. HENLINE LICENSED No. 1984 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE AUGUST 22 2024
OPERATOR'S WELL No. 7536
API WELL No. 47 077 — 00156
STATE COUNTY PERMIT

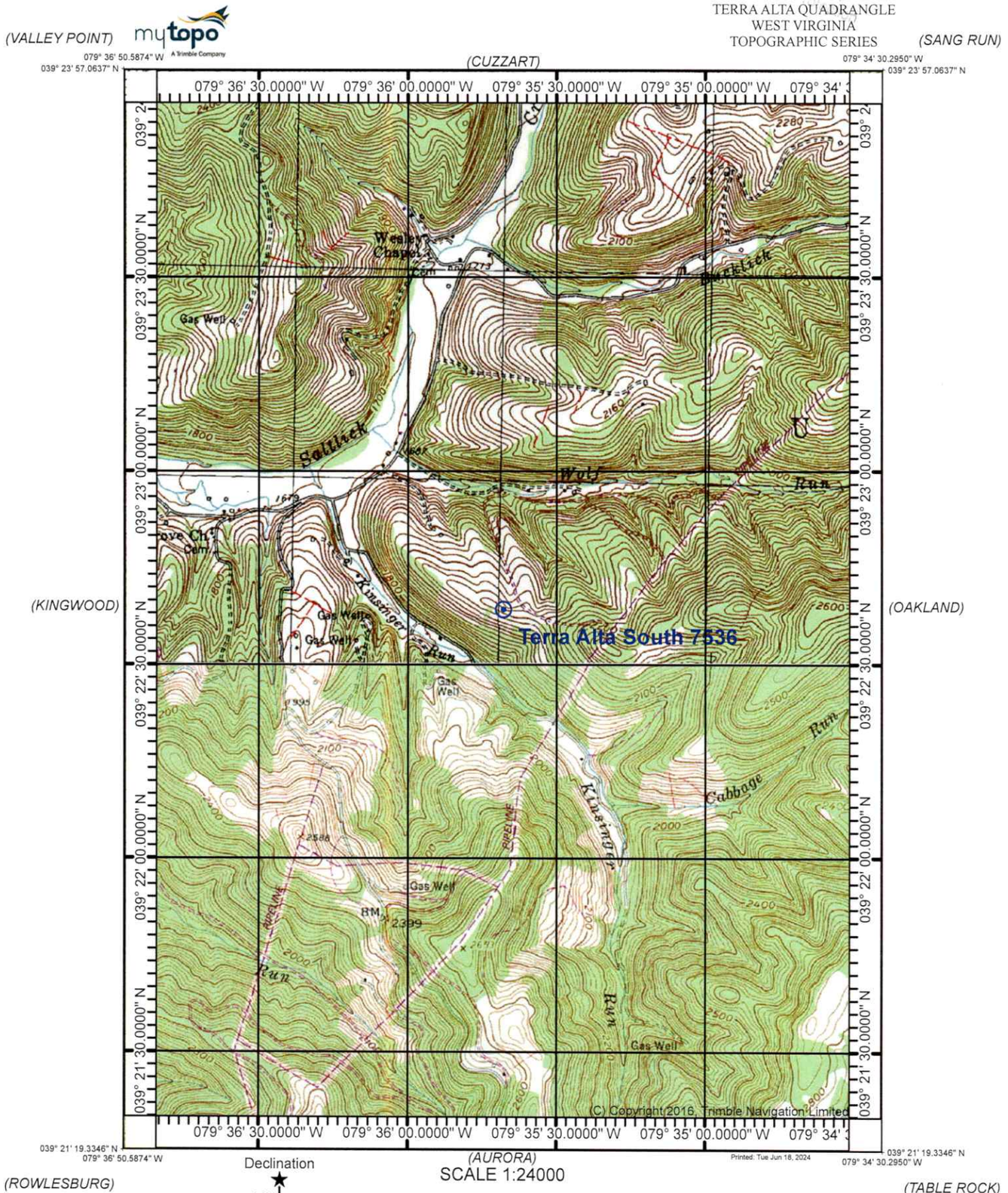
FORM IV-6 (8-78)

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION ___ STORAGE X DEEP X SHALLOW ___
LOCATION: ELEVATION 2075.0' WATER SHED WOLF RUN OF SALTLICK CREEK
DISTRICT UNION COUNTY PRESTON
QUADRANGLE TERRA ALTA, WV
SURFACE OWNER JOHN R. SHORT ACREAGE 77
OIL & GAS ROYALTY OWNER N.A. BUCKALEW LEASE ACREAGE 77
LEASE No. 1090486
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON X CLEAN OUT AND REPLUG ___
TARGET FORMATION ORISKANY ESTIMATED DEPTH 5319
WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT MARIA MEDVEDEVA
ADDRESS PO BOX 1273, CHARLESTON, WV 25325-1273 ADDRESS 1700 MACCORKLE AVE., S.E. CHARLESTON, WV 25314

10/04/2024

P:\2024\2401-2345-017 - TC ENERGY - TERRA ALTA SOUTH 7536\50-SURVEY\DWG\TERRA ALTA SOUTH-7536-WELL-PLAT.DWG

TERRA ALTA QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES



Declination
MN GN
GN 0.89° E
MN 9.28° W

SCALE 1:24000

0 1 Mile
0 1000 Yards
0 1 Kilometer

CONTOUR INTERVAL 20 FT

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

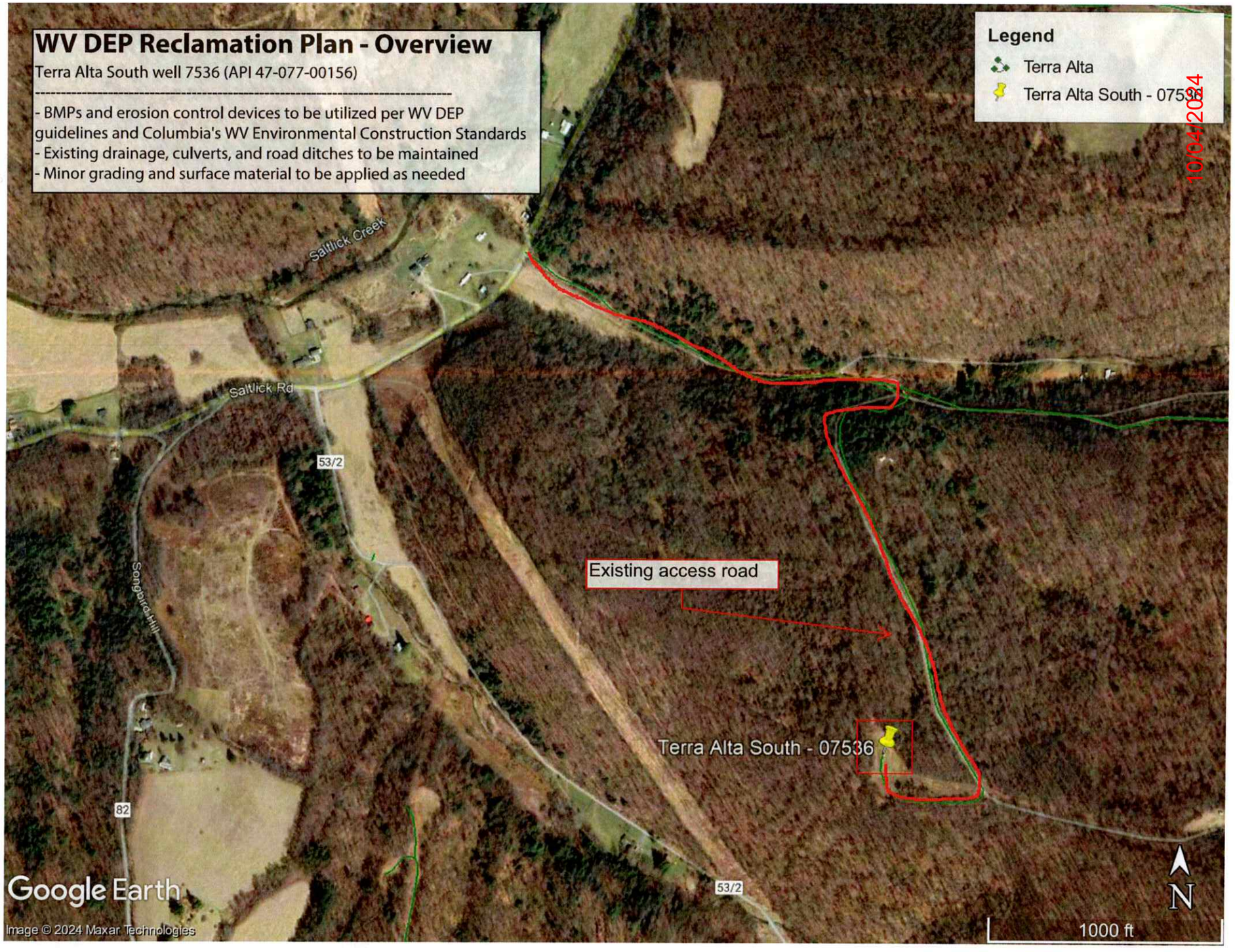
39079-D4-TM-024
TERRA ALTA, WV
JAN 1, 2000

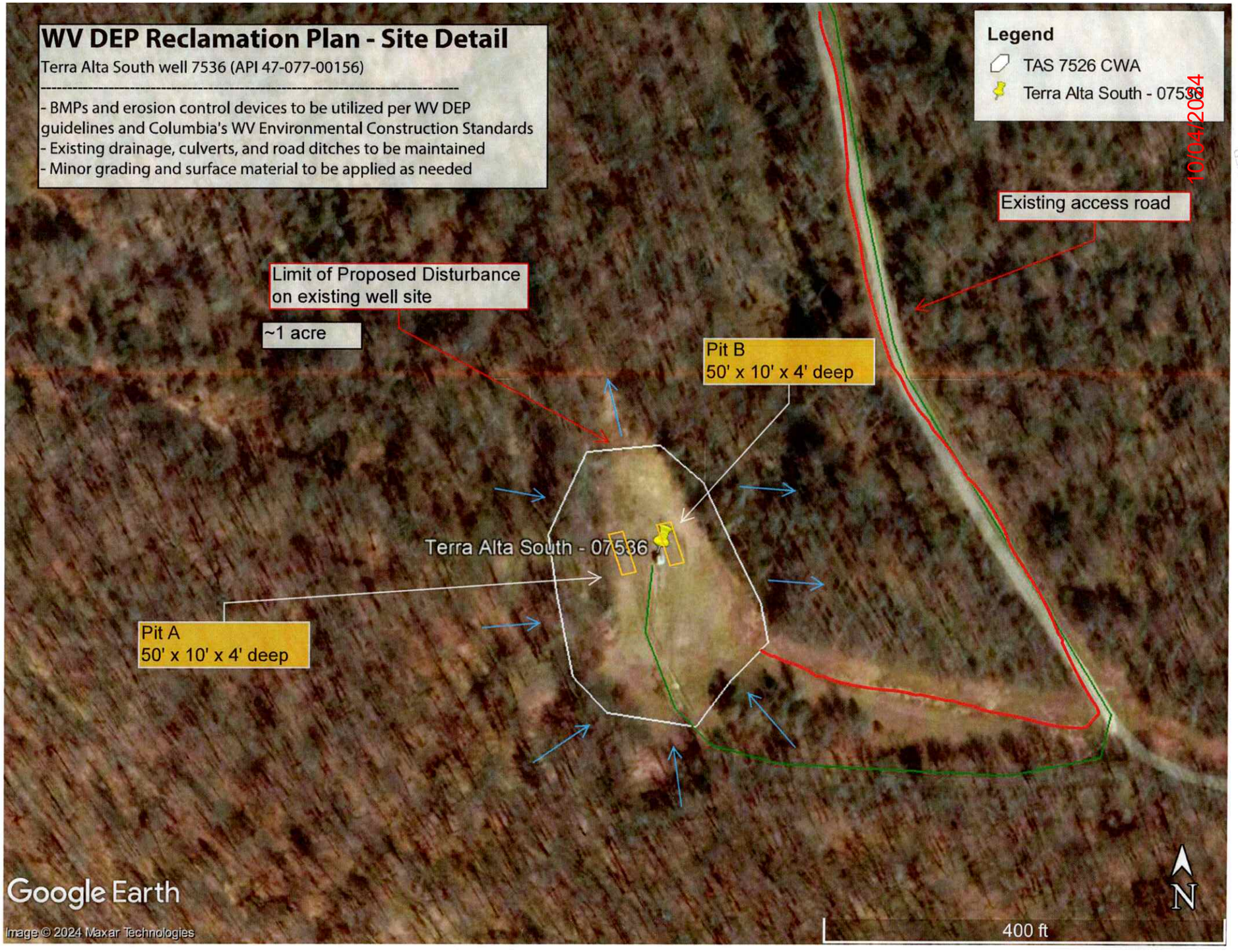
10/04/2024

WV DEP Reclamation Plan - Overview

Terra Alta South well 7536 (API 47-077-00156)

- 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





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

TC Energy

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 7536 (API 47-077-00156)

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

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

If you have questions, feel free to call.

Regards,

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

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

Fwd: For Permit Application Payments

1 message

Whitlock, Renae D <renae.d.whitlock@wv.gov> Tue, Aug 27, 2024 at 3:08 PM
To: Gregory L Null <gregory.l.null@wv.gov>

Correction below:

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

The funding is listed below:

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

Thank you,
Renae

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

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

Gregory, good afternoon,

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

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

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

SALE

MID: 5993
TID: 00E30710 REF#: 00000002
Bank ID: 000000
Batch #: 1014 RRN: 241138629984
08/28/24 08:19:45
AVS: Z CVC: M
Invoice #: 7284

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

AMOUNT $900.00

APPROVED

SIGNATURE NOT REQUIRED

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

Thank You
Please Come Again

MERCHANT COPY

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

SALE

MID: 5993
TID: 00E30710 REF#: 00000003
Bank ID: 000000
Batch #: 1014 RRN: 241192630042
08/28/24 08:20:42
AVS: Z CVC: M
Invoice #: 7284

APPR CODE: 09806S
VISA Manual CP
**********4694 **/**

AMOUNT $900.00

APPROVED

SIGNATURE NOT REQUIRED

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

Thank You
Please Come Again

MERCHANT COPY

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

SALE

MID: 5993
TID: 00E30710 REF#: 00000004
Bank ID: 000000
Batch #: 1014 RRN: 741041630101
08/28/24 08:21:41
AVS: Z CVC: M
Invoice #: 7287

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

AMOUNT $100.00

APPROVED

SIGNATURE NOT REQUIRED

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

Thank You
Please Come Again

MERCHANT COPY

Kennedy, James P <james.p.kennedy@wv.gov>

plugging permits issued 4707700155 07700156

Kennedy, James P <james.p.kennedy@wv.gov> Thu, Oct 3, 2024 at 12:05 PM
To: Gayne J Knitowski <gayne.j.knitowski@wv.gov>, Maria Medvedeva <maria_medvedeva@tcenergy.com>, cervin@prestoncountywv.com

To whom it may concern, plugging permits have been issued for 4707700155 07700156.

James Kennedy

WVDEP OOG

2 attachments

4707700155.pdf
4178K

4707700156.pdf
4127K

10/04/2024