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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, March 29, 2021  
WELL WORK PLUGGING PERMIT  
Vertical Re-Work

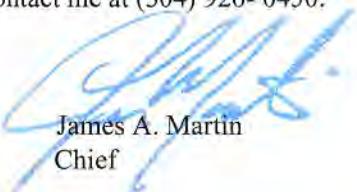
COLUMBIA GAS TRANSMISSION, LLC  
STORAGE TECHNICAL SERVICES - 6TH FLOOR  
1700 MACCORKLE AVE. SE.  
CHARLESTON, WV 25314

Re: Permit approval for 4790  
47-103-00549-00-00

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: 4790  
Farm Name: KINCAID, W. O.  
U.S. WELL NUMBER: 47-103-00549-00-00  
Vertical Re-Work  
Date Issued: 3/29/2021

Promoting a healthy environment.

04/02/2021

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4710300549W

## 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

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1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

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4710300549W

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

1) Well Operator: Columbia Gas Transmission, LLC 307032 Wetzel Proctor Wileyville, WV  
Operator ID County District Quadrangle

2) Operator's Well Number: Victory A 4790 3) Elevation: 1386.4'

4) Well Type: (a) Oil \_\_\_\_\_ or Gas X \_\_\_\_\_

(b) If Gas: Production \_\_\_\_\_ / Underground Storage X \_\_\_\_\_  
Deep \_\_\_\_\_ / Shallow X \_\_\_\_\_

*DMH 1/21/21*

5) Proposed Target Formation(s): Maxton Proposed Target Depth: 2279'

6) Proposed Total Depth: 2279' Feet Formation at Proposed Total Depth: Maxton

7) Approximate fresh water strata depths: None reported by the driller in 1963.

8) Approximate salt water depths: None reported by the driller in 1963.

9) Approximate coal seam depths: 1085'-1088'; 1180'-1185' (as reported by the driller in 1963)

10) Approximate void depths, (coal, Karst, other): None reported by the driller in 1963.

11) Does land contain coal seams tributary to active mine? Yes

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

Obtain a casing inspection and cement bond log. Add perforations. Perform coiled tubing clean-out and acid wash.

\*Casing listed below are existing. No plans to remove, alter, or install new casing/tubing.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	
Conductor	13-3/8"	H-40	48	35	35	30 sx.
Fresh Water	8-5/8"	J-55	24	1248	1248	600 sx.
Coal						
Intermediate						
Production	5-1/2"	J-55	17	2279	2279	600 sx.
Tubing						
Liners						

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Packers: Kind: N/A

Sizes: \_\_\_\_\_

Depths Set \_\_\_\_\_

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Objective Log, Re-Perf, CTCO, Acid

TITLE: Log, Re-Perf, CTCO, Acid	WELL: 4790	WORK TYPE: GPMC
FIELD: Victory A	SHL (Lat/Long): 39.705407 -80.661225	API: 47-103-00549-00-00
STAT: WV	BHL (Lat/Long): 39.705407 -80.661225	CNTY: Wetzel
TWP: Proctor		

## JOB PLAN

**All freshwater based fluids to be treated with biocide and clay stabilizer.  
All acids to be treated with corrosion inhibitor and iron control.**

- 1 Obtain NRP clearances, TOPs, pipeline crossing eval., etc.
- 2 Notify Reservoir Engineering & Geosciences (REG) of intent to take well out of service.
- 3 Prepare access road and well site. Install ECD's per EM&CP.

**\*Note: All work needs to be performed within a 5 day period to prevent risk of acid corrosion.**

- 4 Service all wellhead valves.
- 5 Document initial casing and annular pressures.
- 6 MIRU Baker Atlas. Run gauge ring, HRVRT, and InTex logs.
- 7 Bullhead 200 gal. 15% HCl acid and 1000 gal. TFW.
- 8 RIH with perf gun (90 degree phasing, 4 SPF). Add Maxton perfs as follows, correlated to 8/19/1963 SLB Formation Density log. 2170' - 2191'
- 9 RDMO Baker Atlas.
- 10 MIRU 1.75" CTU. Obtain stabilized pre-cleanout rate through 3/4" choke.
- 11 RIH with jet nozzle. Begin CTCO from top to TD. Wash across perfs 5 times and clean back to top using foam.
- 12 RIH back to bottom, shut well in, and spot 500 gals 15% HCl acid.
- 13 POOH to 1500 ft and load well with TFW.
- 14 Displace acid with 1000 gal. TFW. Tentative maximum treating pressure is 1800 psig contingent upon HRVRT results.
- 15 RBTB and unload well with nitrogen.
- 16 POOH.
- 17 Flow well to re-establish gas flow and recover fluids.
- 18 Obtain 45-min flowback test and report results to REG.
- 19 RDMO CTU.
- 20 Reclaim road and location.
- 21 Commission well to place back in service.
- 22 Notify REG that well is ready for storage service.

DW/1/21/21

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PREPARED BY: Brad Nelson	REVIEWED BY:	APPROVED:
PREP DATE: 9/22/2020		

04/02/2021



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL RECORD

Quadrangle Littleton

Permit No. WER-549

Oil or Gas Well GAS  
(1909)

Company The Mfrs. Lt. and Rt. Co.  
Address 800 Union Trust Bldg., Pittsburgh 19, Pa.  
Farm W. O. Kincaid Acres 97.25  
Location (waters) \_\_\_\_\_  
Well No. 4790 Elev. 1390.00'  
District Proctor County Netzel  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
14			Kind of Pack-
12 3/8"	35'	35'	
10			Size of
8 1/2"	1226'	1226'	
8"			Depth set
<del>XXXXXXXXXX</del>			
5 1/2"	2279'	2279'	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Drilling commenced August 15, 1963  
Drilling completed August 23, 1963  
Date Shot 8/23/63 From Maxton to \_\_\_\_\_  
With Pitot Tube  
Open Flow /10ths Water in \_\_\_\_\_ Inch  
22PH10 /10ths Merc. in 4 1/2 Inch  
Volume 13,170,000 Cu. Ft.  
Rock Pressure 635 lbs. 72 hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

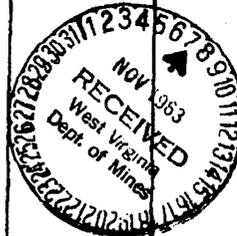
CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
COAL WAS ENCOUNTERED AT 1165 FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Formation	Color	THICKNESS	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Pittsburgh Coal			1165	1177			
Murphy Sand			1240	1260			
Little Dunkard Sand			1515	1536			
Big Dunkard Sand			1670	1727			
First Salt Sand			1890	1900			
Second Salt Sand			1970	2000			
Maxton Sand			2166	2195			
Total Depth				2269			Perforated 2170' to 2195'
5 1/2" Float Shoe set @				2279			
5 1/2" Insert Float Check Valve Set @				2269			

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WELL LOG SUMMARY

WET-549

LOCATION	COMPANY <b>The Manufacturers Light and Heat Company</b>		DIV. FIELD <b>Cameron, West Virginia</b>		WELL NO. <b>4790</b>
	FARM NAME <b>W. O. Kincaid</b>	ACRES <b>97 1/2</b>	LEASE NO. <b>14802</b>	DISTRICT <b>Proctor</b>	COUNTY <b>Netco</b>
	STATE <b>W. Va.</b>				
	TOPO. MAP Quadrangle _____ Ft. _____ of _____ of _____ and _____				

CONTRACTOR	CONTRACTOR'S NAME <b>Lohmann and Johnson Oil Co., Inc.</b>		Drilled from <b>0</b> Ft. to <b>2293</b> Ft.		
	ADDRESS <b>1306 Clark Building Pittsburgh 22, Pennsylvania</b>		Type of Rig <b>Rotary Drilling Machine</b>		
	DATE DRILLING COMMENCED <b>August 15, 1963</b>	DATE WELL COMPLETED <b>August 23, 1963</b>	COMPLETED TOTAL DEPTH <b>2269</b> Feet		TYPE OF COMPLETION <b>Drilled through and perforated</b>

HOLE SIZE	BIT GAUGE (Inches)	17-1/4"	12-1/4"	7-7/8"
	FROM-TO (Feet)	0-35'	0-1248'	0-2279'
CASING AND TUBING	SIZE (O.D.)	13-3/8"	8-5/8"	5-1/2"
	WEIGHT/FOOT	45#	24#	17#
(All Measurements less threads)	STEEL GRADE	H	J	J
	COUPLING TYPE	Short	Short	Short
	SETTING DEPTH	35'	1226'	2279'
	LEFT IN HOLE	35'	1226'	2279'
	NUMBER OF SACKS	30	600	600
CEMENT	TYPE	1-S	1-S	1-S
	WEIGHT (# Gal.)	(Big Crow)	15	15
	RETURN TO SURFACE(Yes-No)		Yes	Yes
	PLUG DOWN PRESSURE		1000#	1450#
CEMENTING SHOE OR PACKER	MANUFACTURER		Baker	Baker
	TYPE		Float Shoe	Float Shoe
	SIZE		8-5/8"	5-1/2"
SETTING DEPTH		1226'	2279'	

WELL STIMULATION <small>(Attach Completed Form PD-17 - "Well Stimulation Report" if applicable)</small>	TREATMENT	TYPE	SIZE AND/OR AMOUNT	ZONE TREATED	OPEN FLOW-MCF/DAY	PERFORMED BY	DATE
			(NONE)	From To	Before After		
				From To	Before After		
				From To	Before After		

OPEN FLOW TESTS	DATE GAUGED	FORMATION	PAY ZONE	TYPE GAUGE (SPECIFY)	PRESSURE (SPECIFY UNITS)	SIZE OPENING (INCHES)	OPEN FLOW MCF/DAY	HRS. BLOWN
	8 23 63	Horton	From 2170 to 2195	Packer Tube	22 PSIG	4-1/2"	13,170 MCF	5-min

WELLHEAD PRESSURE TESTS	DATE GAUGED	FORMATION	MINUTE PRESSURES - PSIG					WELLHEAD PRESSURES - PSIG				
			1	3	5	10	20	30	24HR.	48HR.	72HR.	MAX. PRESS
8 26 63			(NONE TAKEN)					635				

MISC.	DEPTH MEASUREMENT TAKEN FROM: <input type="checkbox"/> Derrick Floor <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Other (Specify) _____		DIST. TO GROUND <b>00</b> Feet	ELEVATION <b>1390.00</b>
	LOGGED <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LOGGED BY (COMPANY) <b>Schlumberger Well Surveying Corporation</b>		DATE LOGGED <b>8 / 19 / 63</b>

REMARKS:  
 Casing Centralizers spaced on 8-5/8" casing at 1193', 1134', and 2'. Cement Basket on 8-5/8" casing at 1132'. Casing Centralizers spaced on 5-1/2" casing at 2294', 2231', 2167', 2104', 2040', 1982', 1847', 1556', 1978', 503', 122' and 2'.  
 Drilling Completed August 19, 1963

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APPROVED BY (DIVISION ENGINEER) <i>A.T. Grubbschaw</i>	DATE <b>10/2/63</b>	APPROVED BY (DIVISION SUPERINTENDENT)	DATE
---	------------------------	---------------------------------------	------

Attach additional sheets (Form PD-44b) and forward to Production Department - Pittsburgh General Office

WELL LOG SUMMARY

DIV.	FIELD	FARM	COUNTY	WELL NO.
b	Cameron, West Virginia	W. O. Kincaid	Putnam	1790

ORIGIN OF FORMATION DEPTHS  Driller's Log  Service Company Log  Combination

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS (Water, Gas, Oil encountered-Open Flows-Rock Pressure-etc.)
Pittsburgh Coal	1165	1177		
Murphy Sand	1260	1260		
Little Bankard Sand	1515	1536		
Big Bankard Sand	1670	1727		
First Salt Sand	1890	1900		
Second Salt Sand	1970	2000		
Marion Sand	2166	2195		Perforated 2170' to 2195'
Total Depth		2269		
5-1/2" Float Shoe set @		2279		
5-1/2" Insert Float Check Valve Set @		2269		
				Notes: Drilled 12-1/4" Hole to 35'. Ran 33' of 12-3/8" Casing, Sm. Gr. H 12 1/2' set at 35'. Cemented it with 30 bags of cement run from the surface by Rig Crew.
				Drilled 12-1/4" Hole to 1260'. Ran 1238' of 8-5/8" Casing, Sm. Gr. J 2 1/2' on a Float Shoe Set at 1226'. Cemented it with 600 bags of Cement, 15 PPG. Good Return of Cement at the Surface.
				Drilled 7-7/8" Hole to 1863' with Air. Changed to gas and drilled to 2198'. Well killed after reaching this depth with 8.7 PPG Mud, 5k viscosity. Well was drilled from 2198' to 2293' under Mud.
				Ran 2306' of 5-1/2" Casing, Sm. Gr. J 1 1/2' on a float shoe set at 2279'. Cemented it with 600 bags of cement, 15 PPG. Good Return of Cement at the Surface.
				Marion Sand Perforated from 2170' to 2195'. Perforated by Schlumberger Well Surveying Corporation August 23, 1963 using 3-5/8" Capsule jets, 4 shots per foot.

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WW-2A  
(Rev. 6-14)

1.) Date: 1/15/2021  
2.) Operator's Well Number Victory A 4790  
State County Permit  
3.) API Well No.: 47- 103 - 005490000

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

4) Surface Owner(s) to be served: (a) Name Milltree Properties, LLC  
Address 3708 International Boulevard  
Vienna, OH 44473  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
5) (a) Coal Operator Name CONSOL RCPC LLP  
Address 1000 Consol Energy Drive, Suite 100  
Canonsburg, PA 15317  
(b) Coal Owner(s) with Declaration Name CONSOL RCPC LLP  
Address 1000 Consol Energy Drive, Suite 100  
Canonsburg, PA 15317  
(c) Coal Lessee with Declaration Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Derek Haught  
Address P.O. Box 85  
Smithville, WV 26178  
Telephone 304-206-7613

**TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:**

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

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

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

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

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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

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

Well Operator Columbia Gas Transmission, LLC  
By: Brad Nelson *Brad Nelson* RECEIVED  
Its: Storage Engineer Office of Oil and Gas  
Address: 455 Racetrack Road  
Washington, PA 15301 FEB 01 2021  
Telephone: 724-250-0610  
Email: brad\_nelson@tcenergy.com WV Department of Environmental Protection

Commonwealth of Pennsylvania - Notary Seal  
Elaine Rybski, Notary Public  
Allegheny County  
My commission expires May 11, 2022  
Commission number 1332803

Subscribed and sworn before me this 15 day of January, 2021

Elaine Rybski *Elaine Rybski* Notary Public  
My Commission Expires 5/11/2022  
Oil and Gas Privacy Notice  
Commonwealth of Pennsylvania  
County of Allegheny

4710300549W



1700 MacCorkle Ave. SE  
P.O. Box 1273  
Charleston, WV 25325

January 15, 2021

Milltree Properties, LLC  
3708 International Boulevard  
Vienna, OH 44473

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to clean out an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Victory A 4790 (API # 47-103-00549-00-00).

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.

If you have questions, feel free to call.

Regards,

*Brad Nelson*

Brad Nelson  
Storage Engineer  
TC Energy (Columbia Gas Transmission, LLC)  
brad\_nelson@tcenergy.com  
off: 724-223-2753  
cell: 724-250-0610

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7018 3090 0001 7217 8370

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For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Vienna, OH 44473

## OFFICIAL USE

Certified Mail Fee	\$3.55
Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<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	\$1.80
<b>Total Postage and Fees</b>	<b>\$8.20</b>



Sent To Milltree Properties, LLC  
 Street and Apt. No., or PO Box No. 3706 International Blvd.  
 City, State, ZIP+4® Vienna, OH 44473

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**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Milaree Properties, LLC  
3708 International Boulevard  
Vienna, OH 44473



9590 9402 4965 9063 0559 83

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

- Agent
- Addressee

B. Received by (Printed Name)

Millwood

G. Date of Delivery

1-25-21

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

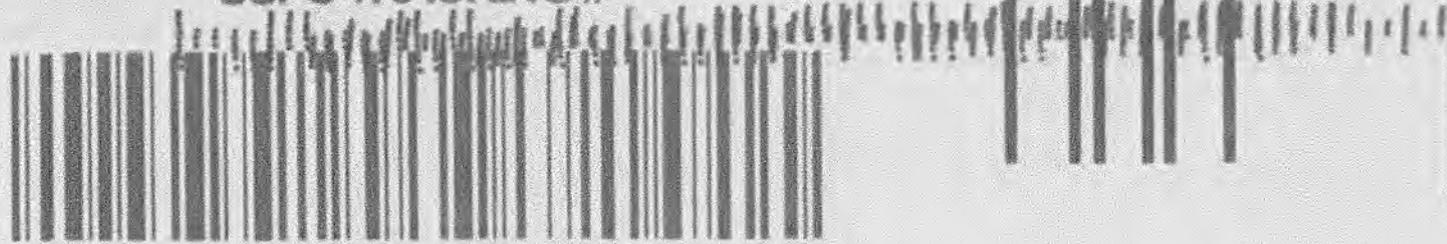
3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

7018 3090 0001 7217 8370

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USPS  
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United States  
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Brod Nelson  
216 Cedarville St.  
Apt. 2  
Pittsburgh, PA 15224

4710300549W



**Columbia  
Pipeline Group**

1700 MacCorkle Ave. SE  
P.O. Box 1273  
Charleston, WV 25325

January 15, 2021

CONSOL RCPC LLC  
1000 Consol Energy Drive, Suite 100  
Canonsburg, PA 15317

Columbia Gas Transmission, an underground natural gas storage operator, is planning to clean out a storage well (API # 47-103-00549-00-00) in Wetzel County, WV. Records indicate that CONSOL RCPC, LLC owns the coal on subject property.

To comply with WV DEP Code, Columbia is required to provide the coal owner the following documents as notification and for processing.

- WV DEP form WW-2A (Notice and Application for a Well Work Permit)
- WV DEP form WW-2B (Well Work Permit Application)
- Copy of survey plat
- WV DEP form WW-9 (Fluids/Cuttings Disposal & Reclamation Plan)

If you have questions, feel free to call.

Regards,

Brad Nelson  
Storage Engineer  
TC Energy (Columbia Gas Transmission, LLC)  
brad\_nelson@tcenergy.com  
off: 724-223-2753  
cell: 724-250-0610

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Canonsburg PA 15317 AL USE

Certified Mail Fee	\$3.55
Extra Services & Fees (check box, add fee as appropriate)	\$2.25
<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	\$1.80
<b>Total Postage and Fees</b>	<b>\$8.20</b>

0024  
15

Postmark  
Here

01/15/2021

Sent To  
**CONSOL ROPC, LLC**  
 Street and Apt. No., or PO Box No.  
**1000 Consol Energy Drive, Suite 1000**  
 City, State, ZIP+4®  
**Canonsburg, PA 15317**

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:  
 CONSOL RCPC, LLC  
 1000 Consol Energy Drive, Suite 1000  
 Canonsburg, PA 15317

4710300549A



9590 9402 4965 9063 0559 21

2 Article Number (Transfer from service label)  
 7018 3090 0001 7216 0283

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 X *[Handwritten Signature]*  Agent  
 Addressee

B. Received by (Printed Name)  
*Leann Annunzio*

C. Date of Delivery

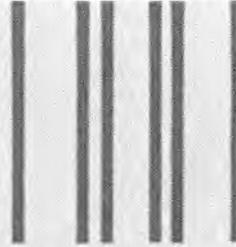
D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type
- |  |   |
|--|---|
| <input type="checkbox"/> Adult Signature                         | <input type="checkbox"/> Priority Mail Express®                     |
| <input type="checkbox"/> Adult Signature Restricted Delivery     | <input type="checkbox"/> Registered Mail™                           |
| <input checked="" type="checkbox"/> Certified Mail®              | <input type="checkbox"/> Registered Mail Restricted Delivery        |
| <input type="checkbox"/> Certified Mail Restricted Delivery      | <input type="checkbox"/> Return Receipt for Merchandise             |
| <input type="checkbox"/> Collect on Delivery                     | <input type="checkbox"/> Signature Confirmation™                    |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |

(over \$500)

4710300549W

USPS TRACKING #



9590 9402 4965 9063 0559 21

United States  
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Brad Nelson  
216 Cedarville St.  
Apt. 2  
Pittsburgh, PA 15224

First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

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**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6, Section 8(d)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Matilda R. Kincaid, et. al.	Columbia Gas Transmission Corporation	Storage lease 14803	56 / 685

**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:  
By: Its:

Columbia Gas Transmission, LLC

Brad Nelson

Storage Engineer

04/02/2021

4710300549w

WW-2B1  
(5-12)

Well No. Victory A 4790

West Virginia Department of Environmental Protection  
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contractor chosen to collect sample.

Certified Laboratory Name \_\_\_\_\_  
Sampling Contractor \_\_\_\_\_

Well Operator Not applicable - existing underground natural gas storage well.  
Address \_\_\_\_\_

Telephone \_\_\_\_\_

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

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

Operator Name Columbia Gas Transmission, LLC OP Code 307032

Watershed (HUC 10) Lynn Camp Run Quadrangle Wileyville, 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: \_\_\_\_\_

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number 34-009-23821, 34-009-23823, 34-009-23824, 34-105-23619 )
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Appalachian Water Services, Station W1 Ronco WTP, Masontown, PA - Permit 2608201)

*DWAH 1/21/21*

Will closed loop system be used? If so, describe: Yes - steel piping connecting wellhead and tank(s).

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

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

Additives to be used in drilling medium? NaCl, biocide, polymer, starch, calcium carbonate, surfactant (CTCO), HCl acid (stimulation)

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) \_\_\_\_\_

-Landfill or offsite name/permit number? If needed: Rumpke Beech Hollow Landfill - Wellston, OH

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected from any environmental protection 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 *Brad Nelson*

Company Official (Typed Name) Brad Nelson

Company Official Title Storage Engineer

Commonwealth of Pennsylvania  
County of Allegheny

Subscribed and sworn before me this 15 day of January, 2021

*Elaine Rybski* Elaine Rybski

Notary Public  
Commonwealth of Pennsylvania - Notary Seal  
Elaine Rybski, Notary Public  
Allegheny County  
My commission expires May 11, 2022  
Commission number 1332803

My commission expires 5/11/2022

Proposed Revegetation Treatment: Acres Disturbed <1.0 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
<u>Annual Rye</u>	<u>40</u>	<u>Orchard Grass and/or Tall Fescue</u>	<u>29</u>
		<u>Birdsfoot trefoil (empire)</u>	<u>9</u>
		<u>Annual Rye</u>	<u>12</u>

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: Derek M. Haught

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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Title: Oil & Gas Inspector

Date: 1/21/21

Field Reviewed? (  ) Yes (  ) No

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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): Lynn Camp Run Quad: Wileyville, WV  
Farm Name: W.O. Kincaid

- 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 contaminate 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. Fluid pumping well service equipment will have secondary containment under all leak paths. 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.

Lynn Camp Run is approximately 1000' to the NE.  
The closest Well Head Protection Area is 8 mi. (WV3305202 - Hundred Littleton PSD). It is within ZPC (WVSID WV3304803 - Sistersville Municipal Water). Refer to enclosed assessment letter dated 4/24/2020 from Department of Health and Human Resources, Source Water Assessment and Protection department.

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

N/A

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

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 lubrications will be stored on site, but located within secondary containment. Construction and well servicing equipment will be monitored and inspected daily for leaks or spills.

Signature: Bruce Nelson

Date: 1/29/21

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# WV DEP Reclamation Plan Site Detail

Victory A 4790 (API 103-00549)

- 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**

- VA 4790 Access Road
- VA 4790 LOD
- Victory A - 04790



Google Earth

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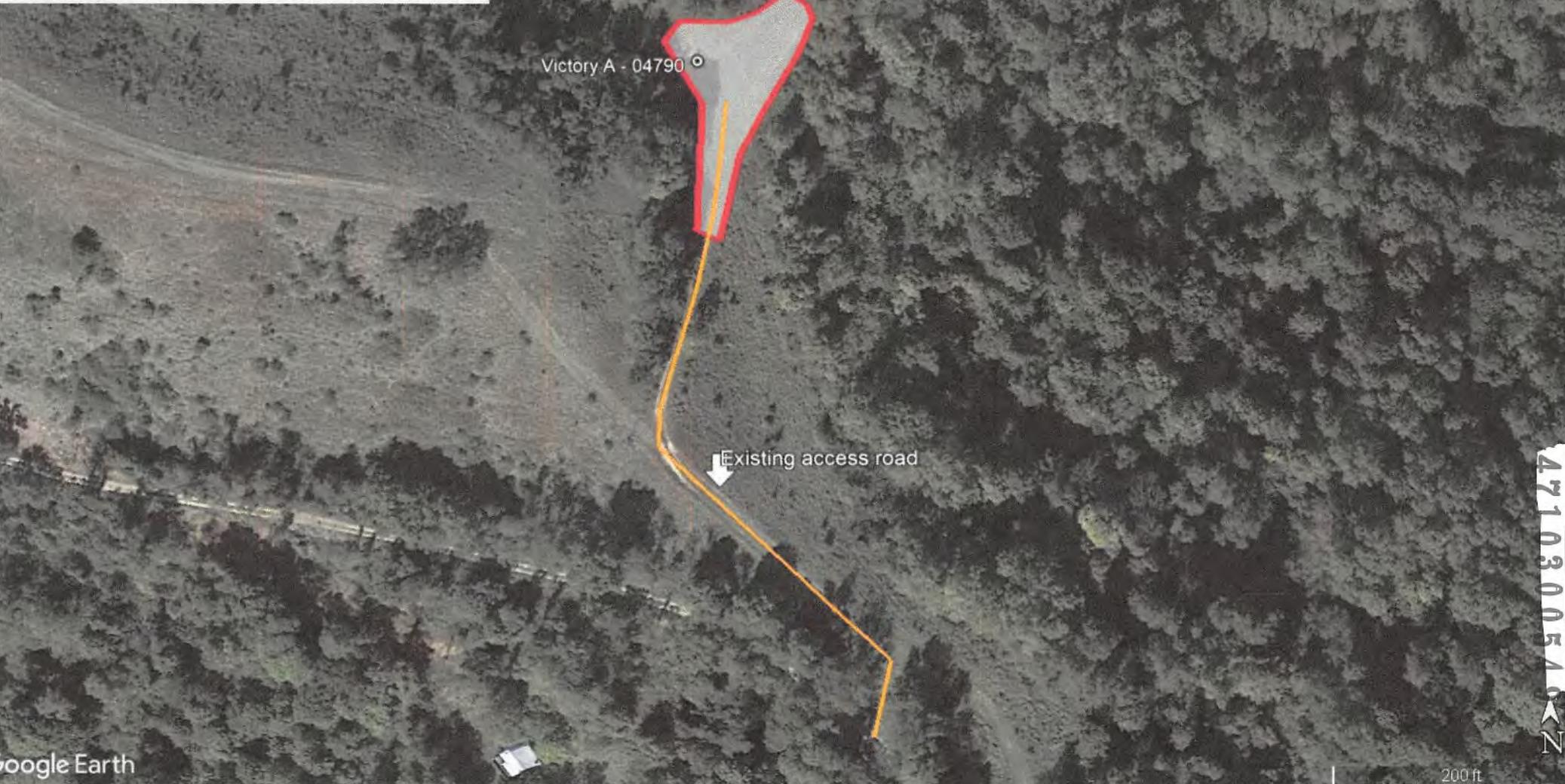
# WV DEP Reclamation Plan Site Overview

Victory A 4790 (API 103-00549)

- 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**

- VA 4790 Access Road
- VA 4790 LOD
- Victory A - 04790



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200 ft

4710300510

1202/20/4



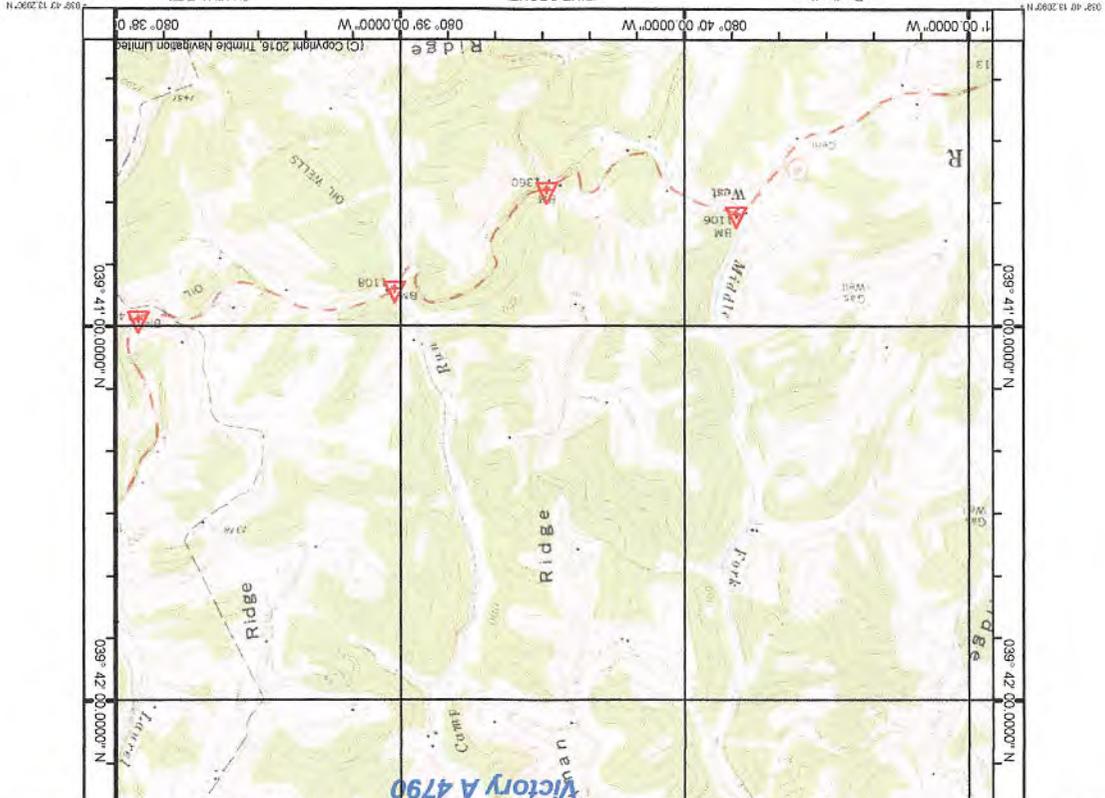
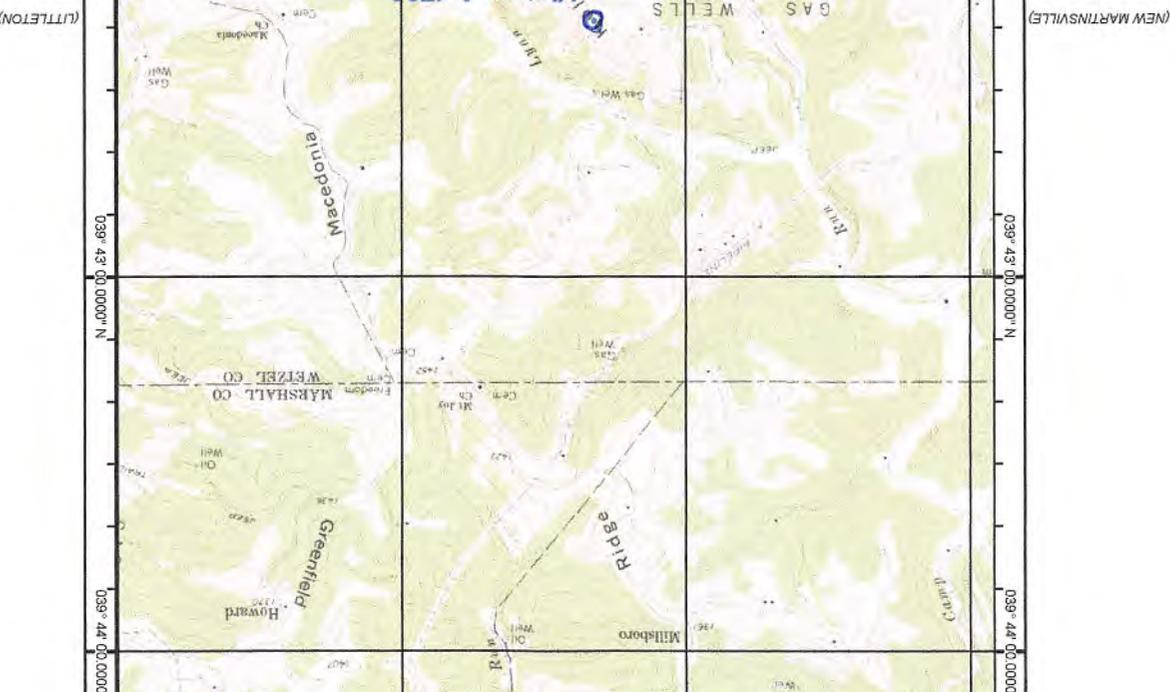
(POWHATAN POINT)

4710300549W

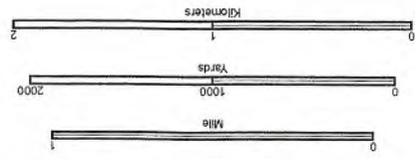
WILEYVILLE QUADRANGLE  
WEST VIRGINIA  
TOPOGRAPHIC SERIES  
(CAMERON)

089° 44' 22.3283" N 080° 37' 58.8603" W (CAMERON)

089° 44' 00.0000" N 080° 38' 00.0000" W  
089° 43' 00.0000" N 080° 39' 00.0000" W  
089° 42' 00.0000" N 080° 40' 00.0000" W  
089° 41' 00.0000" N 080° 41' 00.0000" W  
089° 40' 00.0000" N 080° 42' 00.0000" W



089° 41' 05.6252" W 080° 41' 05.6252" W (PORTERS FALLS)

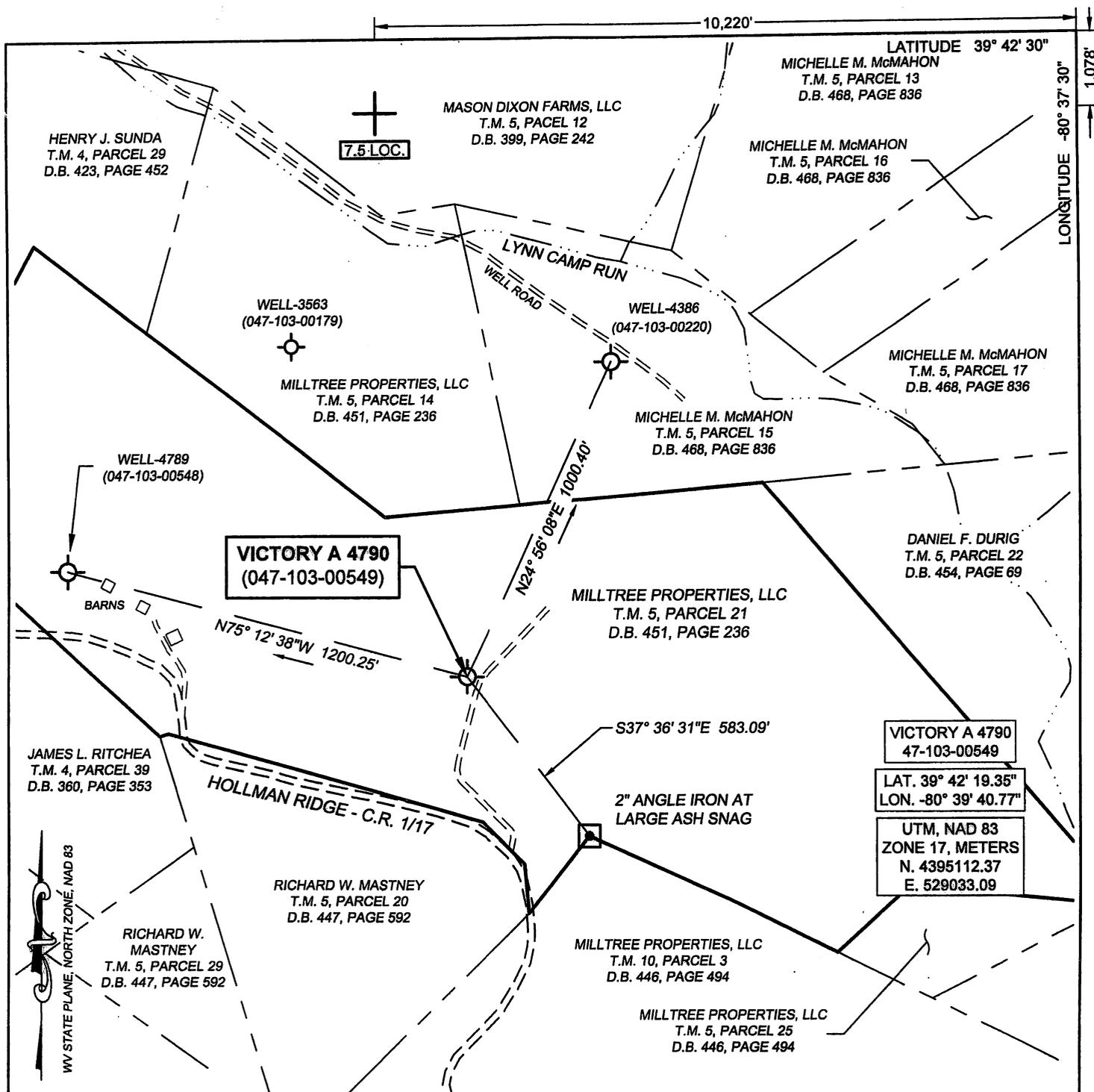


CONTOUR INTERVAL 20 FT

39080-F5-TM-024  
WILEYVILLE, WV  
JAN 1, 1976

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 8M N and 16M E

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(BIG RUN)

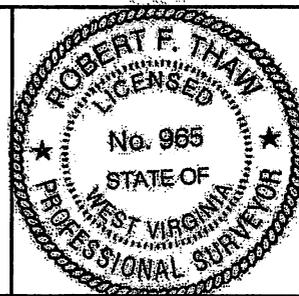


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No 2001-3079-001-006  
 DRAWING No. VICTORY A-4790  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION TRIMBLE R10  
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) R. Thaw  
**ROBERT F. THAW PS #965**



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



DATE DECEMBER 14, 2020  
 OPERATOR'S WELL No. 4790  
 API WELL No. 47 103 - 00549W

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1386.4' WATER SHED LYNN CAMP RUN  
 DISTRICT PROCTOR COUNTY WETZEL  
 QUADRANGLE WILEYVILLE, WV

SURFACE OWNER MILLTREE PROPERTIES, LLC ACREAGE 76.9±  
 OIL & GAS ROYALTY OWNER MATILDA R. KINCAID, ET AL  
 LEASE ACREAGE 97.25± LEASE NO. 3014803-000

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE   
 STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG

04/02/2021

TARGET FORMATION MAXTON ESTIMATED DEPTH 2293  
 WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT JAMES AMOS  
 ADDRESS PO BOX 1273, CHARLESTON, WV 25325-1273 ADDRESS 48 COLUMBIA GAS ROAD SANDYVILLE, WV 25275

FORM IV-6 (8-78)

47-103-00549W  
4710300549W



1700 MacCorkle Ave SE  
P.O. Box 1273  
Charleston, WV 25325

January 29, 2021

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

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

Victory A 4790 (API 103-00549)

Please return permit to:

Columbia Gas Transmission, LLC  
455 Racetrack Road  
Washington, PA 15301  
Attn: Brad Nelson

Check # 052469

1/14/2021

\$10000.00

If you have questions, feel free to call.

Regards,

A handwritten signature in cursive script that reads "Brad Nelson".

Brad Nelson  
Storage Engineer  
TC Energy (Columbia Gas Transmission, LLC)  
brad\_nelson@tcenergy.com  
off: 724-223-2753  
cell: 724-250-0610

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