



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

Wednesday, April 20, 2022
WELL WORK PERMIT
Vertical / Re-Work

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

Re: Permit approval for 4712
47-051-00458-00-00

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

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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


James A. Martin
Chief

Operator's Well Number: 4712
Farm Name: MILLER HEIRS
U.S. WELL NUMBER: 47-051-00458-00-00
Vertical Re-Work
Date Issued: 4/20/2022

Promoting a healthy environment.

04/22/2022

PERMIT CONDITIONS

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

CONDITIONS

1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring 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.

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 Marshall Liberty Cameron, WV
Operator ID County District Quadrangle

2) Operator's Well Number: Victory B 4712 3) Elevation: 774.8'

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

5) Proposed Target Formation(s): Maxton, Big Injun Proposed Target Depth: 1428'

6) Proposed Total Depth: 1738 Feet Formation at Proposed Total Depth: Big Injun

7) Approximate fresh water strata depths: None reported by the driller in 1962.

8) Approximate salt water depths: None reported by the driller in 1962.

9) Approximate coal seam depths: 427'-435' (as reported by the driller in 1962).

10) Approximate void depths, (coal, Karst, other): None reported by the driller in 1962.

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)

Run a casing inspection and cement bond log. Add perforations in the Maxton. Perform coiled tubing clean-out and acid wash.

Perfs 1430 - 1471 logs

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

APR 4 2022

13) CASING AND TUBING PROGRAM

WV Department of Environmental Protection

TYPE	SPECIFICATIONS			FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor						
Fresh Water	13-3/8"	H-40	48		95'	125 sx.
Coal	8-5/8"	J-55	24		480'	400 sx.
Intermediate						
Production	5-1/2"	J-55	17		1554'	450 sx.
Tubing						
Liners						

OK

Packers: Kind: N/A
Sizes: _____
Depths Set _____

WELL JOB PLAN		Well Engineering & Technology	PAGE 3	DATE JOB PREPARED: 11/24/2021
Objective Log, Re-Perf, CTCO, Acid		LAST PROFILE UPDATE:		
TITLE: Log, Re-Perf, CTCO, Acid		WORK TYPE: GPMC		
FIELD: Victory B	WELL: 4712			
STAT: WV	SHL (Lat/Long):	39.753745 -80.611991	API: 47-051-00458-00-00	
TWP: Liberty	BHL (Lat/Long):	39.753745 -80.611991	CNTY: Marshall	

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. Report results to WE&T Engineer.
- 7 RIH with perf gun (90 degree phasing, 4 SPF). Add Maxton perfs as follows, correlated to 7/12/2000 Baker GR-Neu.-DT log. 1430' - 1471'.
- 8 RDMO Baker Atlas.
Prior to acid stimulation, verify with WE&T Engineer that results of HRVRT and CBL support stimulation pressures.
- 9 MIRU 1.75" CTU. Obtain stabilized pre-cleanout rate through 3/4" choke.
- 10 RIH with jet nozzle. Begin CTCO from top to TD. Wash across perfs 2 times with TFW. Start acid and wash perfs 2 times with foamed acid.
- 11 RIH back to bottom, shut well in, and spot 500 gals 15% HCl acid.
- 12 POOH to 1200 ft and load well with TFW.
- 13 Displace acid with 1000 gal. TFW. Tentative maximum treating pressure is 2500 psig contingent upon HRVRT results.
- 14 RBTB and unload well with nitrogen. Spent acid must be recovered within 24 hrs.
- 15 POOH.
- 16 Flow well to re-establish gas flow and recover fluids.
- 17 Obtain 45-min flowback test and report results to REG.
- 18 RDMO CTU.
- 19 Reclaim road and location.
- 20 Commission well to place back in service.
- 21 Notify REG that well is ready for storage service.

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PREPARED BY: Brad Nelson	REVIEWED BY:	APPROVED: Gayne Knitowski
PREP DATE: 11/24/2021		

4705100458W

50-10



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Cameron
Permit No. MARS-458

WELL RECORD

Oil or Gas Well GAS
STORAGE GAS
(MINS)

Company The Mfrs. Lt. and Ht. Co.
Address 800 Union Trust Bldg., Pittsburgh 19, Pa.
Farm Miller Heirs Acres 88
Location (waters) _____
Well No. L-4712 Elev. 773'
District Idberly County Marshall
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced June 12, 1962
Drilling completed June 20, 1962
Date Shot 6/20/62 From Big Injun, Maxton
With Pitot Tube
Open Flow /10ths Water in _____ Inch
15.0 OPSIG /10ths Merc. in 4 1/2 Inch
Volume 10,640,000 Cu. Ft.
Rock Pressure 580 lbs. 12 days hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet
Salt water _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13 3/8"	95	95	
10			Size of
8 1/2"	480	480	
6"			Depth set
5 1/2"	1554	1554	
3"			Perf. top
2"			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

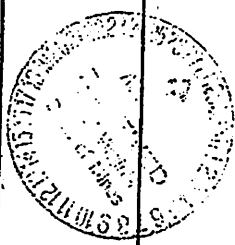
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 427 FEET INCHES

FEET INCHES FEET INCHES

FEET INCHES FEET INCHES

Formation	Color	THICKNESS Feet	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Pittsburgh Coal		8	427	435			
Murphy Sand		10	545	555	Small show of gas		
Big Dunkard Sand		15	970	985			
First Salt Sand		12	1234	1246			
Second Salt Sand		28	1360	1388			
Maxton Sand		42	1428	1470	Gas at 1449-1470		
Big Idme		46	1510	1556			
Big Injun Sand			1558	1558	Not Drilled Through		
Total Depth			1738	1738			
Total Depth of 5-1/2" Casing			1556	1556			

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(Over)

04/22/2022

Form GG-2

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL DRILLING PERMIT

Permit No. MA83-458

JUNE 23, 19 62

TO THE MANUFACTURERS LIGHT & HEAT CO.
Well Operator

LOCATION OF WELL:

500 UNION TRUST BUILDING
Street

LIBERTY

DISTRICT

PITTSBURGH 19, PENNSYLVANIA
City

MARSHALL

COUNTY

WELL No. 1-4712

ELEVATION 773'

MILLER HEIDS

FARM

ACRES .88

The Department of Mines received your Notice and Plat of the Well described above on the 13th day of JUNE, 19 62, showing proposed location for drilling an oil or gas well.

Ten days having expired since the receipt of Notice and Plat and no objections having been made by the coal owners, coal operators, or the Department of Mines, the location is approved and permission is granted you to drill strictly in accordance with the several provisions of Chapter 22, Code of 1931, the Well to be numbered and located as above shown and more particularly as indicated on the Plat on file with this Department.

This Permit is assignable either by separate instrument, or incident to the transfer of title to the oil and gas, or of the right to drill therefor at said location, but no such assignment shall entitle the assignee to drill thereat until he shall have filed with the Department of Mines a certified, or sworn copy of the instrument assigning same, or as an incident to which such assignment was made.

In case the well is not commenced within four months from the above date, this Permit shall expire and be of no further force or effect.

LEONARD J. TIMMS
DIRECTOR Department of Mines

BY ASSISTANT DIRECTOR-OIL AND GAS DIVISION

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WV Dept. of Environmental Protection

COLUMBIA GAS SYSTEM - PITTSBURGH GROUP COMPANIES
WELL LOG SUMMARY

of Sheets

DIV. FIELD: **1** Cameron, W. Va. FARM: **G. M. Miller** COUNTY: **Marshall** WELL NO.: **4712**
 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	427	435	8	Small Show of Gas
Murphy Sand	515	555	10	
Big Dunkard Sand	970	985	15	
First Salt Sand	1234	1246	12	
Second Salt Sand	1360	1388	28	
Maxton Sand	1428	1470	42	Gas at 1449-1470
Big Lime	1510	1556	46	
Big Injun Sand	1558			Not Drilled Through
Total Depth		1738		
Total Depth of 5-1/2" Casing		1556		
Note: Well Logged by Schlumberger Well Surveying Corporation 6-20-62 Maximum Depth Logged 1737'				
Perforated Maxton	1428	1470		Note: Drilled 17-1/4" hole to 108'. Run 93' of 13-3/8" casing, Smls. Gr. H 48# and cemented it with 125 Bags of Cement, 1 Bag of Jel-flakes and 17 Bags of Calcium Chloride, 15 # Per Gal. Good Return of Cement at the Surface. Drilled 12-1/4" Hole to 508', Run 482' of 8-5/8" casing, Smls. Gr. J 21# on a Float Shoe set at 480' and cemented it with 100 Bag Cement, 39 Bags of Aquagal, 4 Bags of Flocele 14.7# Per Gal. Good Return of Cement at the Surface. Drilled 7-7/8" Hole to 1738'. Run 1561' of 5-1/2" casing Smls. Gr. J 17# on a Formation Packer Shoe set at 1556' and cemented it with 450 Bags of Cement, 4 Bags of Flocele and 1 Bag of Hydrotan 14.7# per Gal. Good Return of Cement at the Surface.
4 Shots per ft. 3-5/8 Crack Jets under 55 G1. 10% Acetic Acid				

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WELL LOG SUMMARY

V.F. yb. 34 m. l.

LOCATION	COMPANY The Manufacturers Light and Heat Company				DIV. FIELD L. Cameron, W. Va.		WELL NO. 4712						
	FARM G. M. Miller Hrs.		ACRES 88	LEASE NO. 2298	DISTRICT - COUNTY Liberty Marshall		STATE W. Va.						
	TOPO. MAP Quadrangle _____ Ft. _____ of _____ of _____ of _____												
CONTRACTOR	CONTRACTOR Lohmann and Johnson Oil Co., Inc				Type of Rig Rotary Drilling Machine								
	ADDRESS 1917 Clark Building Pittsburgh 22, Pennsylvania				Drilled from 0 Ft. to 1738 Ft.								
	COMPLETED (DATE) 6-20-62				COMPLETED TOTAL DEPTH 1738 ft.		DATE PURCHASED FOR. WELL NO.						
HOLE SIZE	BIT GAUGE (INCHES)		17-1/4		12-1/4		7-7/8						
	FROM-TO (FEET)		0-108		0-508		0-1738						
	SIZE (O.D.)		13-3/8"		8-5/8"		5-1/2"						
	WEIGHT/FOOT		18#		21#		17#						
CASING AND TUBING	STEEL GRADE		H		J		J						
	COUPLING TYPE		Short		Short		Short						
	SETTING DEPTH		95		180		1551						
	LEFT IN HOLE		95		180		1551						
CEMENT	NO. OF SACKS		125		100		150						
	TYPE		1-S		1S-2		1S-2						
	WEIGHT #/GAL.		15		14.7		14.7						
PACKER	MANUFACTURER		Halliburton		Formation								
	TYPE		5-1/2"		1556								
	SETTING DEPTH												
WELL STIMULATION	TREATMENT	TYPE	SIZE AND/OR AMOUNT	ZONE TREATED		OPEN FLOW MCF/DAY	PERFORMED BY	DATE					
				From	to	Before	After						
				From	to	Before	After						
				From	to	Before	After						
OPEN FLOW TEST	DATE GAUGED	FORMATION	PAY ZONE		TYPE GAUGE (SPECIFY)	PRESSURE (SPECIFY UNITS)	SIZE OPENING-IN.	OPEN FLOW M.C.F./DAY	W.S. LOW				
	6 19 62	Big Injun	From 1556	to 1738	Pitot Tube	Mercury .5	4-1/2"	1360	10-Min.				
	6 20 62	Big Injun Maxton	From 1556	to 1738	Pitot Tube	Mercury	4-1/2"	10610	11-Min.				
WELLHEAD PRESSURE TESTS	DATE TAKEN	FORMATION	MINUTE PRESSURE - PSIG					WELLHEAD PRESSURE - PSIG					
	6 19 62	Big Injun	1	3	5	10	20	30	24 HR.	48 HR.	72 HR.	MAX. PRESS.	TIME
	7 2 62	Big Injun Maxton							180				
MISC.	DEPTH MEASUREMENT TAKEN FROM: <input type="checkbox"/> Derrick Floor <input checked="" type="checkbox"/> Ground Other (Specify) _____				DIST. TO GROUND		ELEVATION						
	LOGGED <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LOGGED BY (COMPANY) Schlumberger Well Surveying Corporation		0 ft.		773						
REMARKS	* Note: Form PD-17 "Well Fracture Report" to be completed and attached, if applicable												
	Drilling Completed 6-17-62												
	Bottom of 13-3/8" casing beveled, 8-5/8" casing set on float shoe. 5-1/2" casing set on formation packer shoe. Centralizers spaced on 5-1/2" and 8-5/8" casings												
	Plug Down Pressures												
	13"	8-5/8"	5-1/2"										
	100#	100#	700#										
				Cement	Return								
				13"	8-5/8"	5-1/2"							
				Yes	Yes	Yes							

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APR 4 2022
WV Department of
Environmental Protection

Attach additional sheets and forward to Production Dept. Pittsburgh General Office

Verified by *[Signature]*
DIVISION ENGINEER

Approved by *[Signature]*
DIVISION ENGINEER

04/22/2022

WW-2A1
(Rev. 1/11)

Operator's Well Number Victory B 4712

**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
George M. Miller and Ottie M. Miller	The Wheeling Natural Gas Company		DBV 137/395

**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

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:	Columbia Gas Transmission, LLC
By: Its:	Brad Nelson SK
	Storage Engineer

04/22/2022

WW-2A
(Rev. 6-14)

1) Date: 3/24/2022
2.) Operator's Well Number Victory B 4712
State County Permit
3.) API Well No.: 47- 051 - 004580000

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 Andrea Maqers Address 27 Millers Cove Lane
Cameron, WV 26033
(b) Name Jeremiah Maqers Address 27 Millers Cove Lane
Cameron, WV 26033
(c) Name _____ Address _____
5) (a) Coal Operator
Name Consol RCPC, LLC Address 1000 Consol Energy Drive, Suite 100
Canonsburg, PA 15317
(b) Coal Owner(s) with Declaration
Name Consol RCPC, LLC Address 1000 Consol Energy Drive, Suite 100
Canonsburg, PA 15317
(c) Coal Lessee with Declaration
Name N/A Address _____
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Office of Oil and Gas
APR 4 2022
WV Department of Environmental Protection

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

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

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

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

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

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

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

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

Well Operator: Columbia Gas Transmission, LLC
By: Brad Nelson
Its: Storage Engineer
Address: 455 Racetrack Road
Washington, PA 15301
Telephone: 724-250-0610
Email: brad_nelson@tcenergy.com

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

Subscribed and sworn before me this 25 day of March, 2022

Elaine Rybski Notary Public
My Commission Expires 5/11/2022
Commonwealth of Pennsylvania
County of Allegheny

Oil and Gas Privacy Notice
The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

4705100458w

Columbia Gas Transmission, LLC

1700 MacCorkle Ave., SE, Charleston, WV, USA 25325



March 24, 2022

Andrea Magers and Jeremiah Magers
27 Millers Cove Lane
Cameron, WV 26033

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 B 4712 (API # 47-051-00458-00-00).

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,

A handwritten signature in blue ink 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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Office of Oil and Gas
APR 4 2022
WV Department of
Environmental Protection

4705100458W

7020 3160 0001 5076 2723

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

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

Cameron, WV 26033

Certified Mail Fee	\$3.75
Postage	\$2.16
Total Postage and Fees	\$8.96

0024
18
MAR 25 2022
Postmark
Here
03/25/2022

Sent To
Andrea Meyers and Jeremiah Meyers
Street and Apt. No., or PO Box No.
27 Millers Cove Lane
City, State, ZIP+4®
Cameron, WV 26033

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

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
 - A unique identifier for your mailpiece.
 - Electronic verification of delivery or attempted delivery.
 - A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.
- Important Reminders:**
- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
 - Certified Mail service is *not* available for international mail.
 - Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
 - For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;
 - Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
 - Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
 - Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- IMPORTANT: Save this receipt for your records.**

PS Form 3800, April 2015 (Reverse) PSN 7530-02-000-9047

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Office of Oil and Gas
APR 4 2022

WV Department of
Environmental Protection
First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ 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 type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) Jeremiah Meyers</p> <p>C. Date of Delivery 3-23-22</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>3. Service Type <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
1. Article Addressed to: Andrea Meyers and Jeremiah Meyers 27 Millers Cove Lane Cameron, WV 26033	

UNITED STATES POSTAL SERVICE
PITTSBURGH PA 150
26 MAR 2022PM 5 L

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

**Brad Nelson
216 Cedarville Street
Apt. 2
Pittsburgh, PA 15224**

04/22/2022

**Columbia Gas Transmission, LLC**

1700 MacCorkle Ave., SE, Charleston, WV, USA 25325

March 24, 2022

CONSOL RCPC, LLC1000 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 # 47-051-00458-00-00) in Marshall 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.

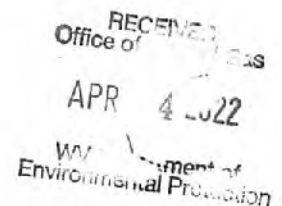
- WV DEP form WW-2A (Notice and Application for a Well Work Permit)
- WV DEP form WW-2B (Well Work Permit Application)
- Copy of survey plat
- WV DEP form WW-9 (Fluids/Cuttings Disposal & Reclamation Plan)

If you have questions, feel free to call.

Regards,

A handwritten signature in blue ink 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



4705100458W

7020 3160 0001 5076 2716

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

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

Canonsburg, PA 15317

OFFICIAL USE

Certified Mail Fee	\$3.75	0024
Extra Services & Fees (check box, add fee if appropriate)	\$7.00	18
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	Postmark Here MAR 25 2022
<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	\$2.16	03/25/2022
Total Postage and Fees	\$8.96	
Sent To CONSOL RCPG, LLC Street and Apt. No., or PO Box No. 1000 Consol Energy Drive, Suite 100 City, State, ZIP+4® Canonsburg, PA 15317		

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

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
 - A unique identifier for your mailpiece.
 - Electronic verification of delivery or attempted delivery.
 - A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.
- Important Reminders:**
- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
 - Certified Mail service is *not* available for international mail.
 - Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
 - For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;
 - Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
 - Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
 - Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.
- IMPORTANT: Save this receipt for your records.**

PS Form 3800, April 2015 (Reverse) PSN 7530-02-000-9047

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APR 4 2022
U.S. Department of
Environmental Protection

SENDER: COMPLETE THIS SECTION

- Complete Items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:
CONSOL RCPG, LLC
1000 Consol Energy Drive
Suite 100
Canonsburg, PA 15317

2. A
7 7020 3160 0001 5076 2716

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
X *[Signature]*

B. Received by (Printed Name) Addressee
Sam Amico

C. Date of Delivery
03/25/2022

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

3. Service Type
 Certified Mail® Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes

PS Form 3811, July 2013 Domestic Return Receipt

UNITED STATES POSTAL SERVICE
PITTSBURGH PA 150
25 MAR 2022PM 8 L

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

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

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

04/22/2022

4705100458W

WW-9
(5/16)

API Number 47 - 051 - 004580000
Operator's Well No. Victory B 4712

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) Fish Creek Quadrangle Cameron, 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 ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS AND DISPOSED OFF-SITE *JMM*

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)

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

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Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at a 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 Commonwealth of Pennsylvania
Company Official Title Storage Engineer County of Allegheny

Subscribed and sworn before me this 25 day of March, 2022
Elaine Rybski Notary Public

My commission expires 5/11/2022

Commonwealth of Pennsylvania - Notary Seal
Elaine Rybski, Notary Public
Allegheny County
My commission expires 04/22/2022
Commission number 1955097
Member, Pennsylvania Association of Notaries

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: Gayne Knitowski Digitally signed by Gayne Knitowski
Date: 2022.03.28 09:24:10 -0400

Comments: _____

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APR 4 2022
WV Department of
Environmental Protection

Title: Inspector

Date: 3-28-2022

Field Reviewed? Yes No

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

Operator Name: Columbia Gas Transmission, LLC
Watershed (HUC 10): Fish Creek Quad: Cameron, WV
Farm Name: MILLER HEIRS

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.

Fish Creek is approximately 200' to the NW.
The closest Well Head Protection Area is 6.0 mi. (WV3305202 - Hundred Littleton PSD).

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WV Department of Environmental Protection

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.

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.

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WV Dept. of Environmental Protection

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: Bud Nola

Date: 3/31/2022

WVDEP Reclamation Site Overview / Detail

Victory B 4712 (API 051-00458)

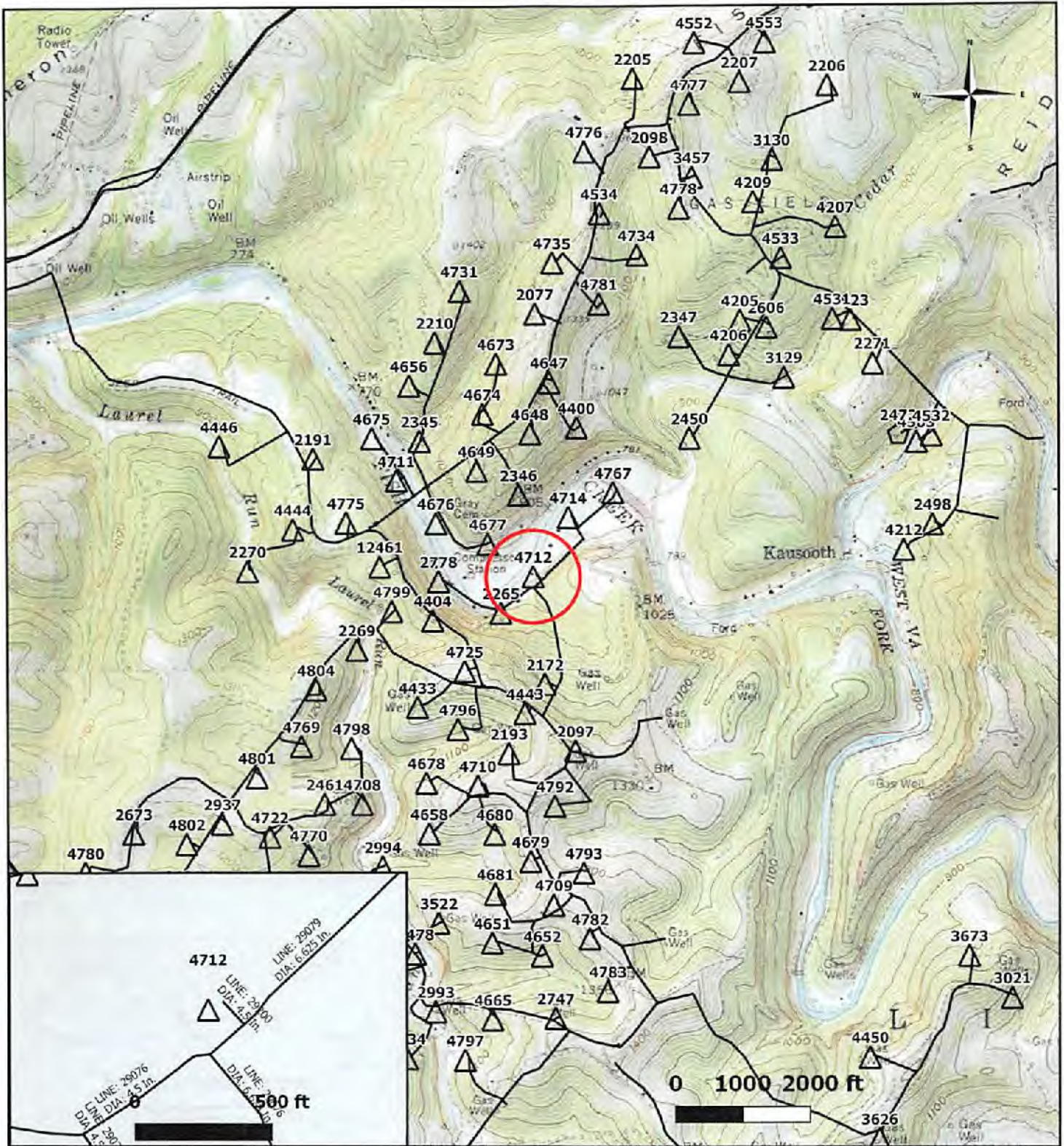
- BMPs and erosion control devices to be utilized per WVDEP guidelines and Columbia's WW Environmental Construction Standards.
- Existing drainage, culverts, and road ditches to be maintained.
- Minor grading and surface material to be applied as needed

Legend

- VB 4712 Access Road
- VB 4712 LOD
- Victory B 4712



Parcel # 4705100458



Legend

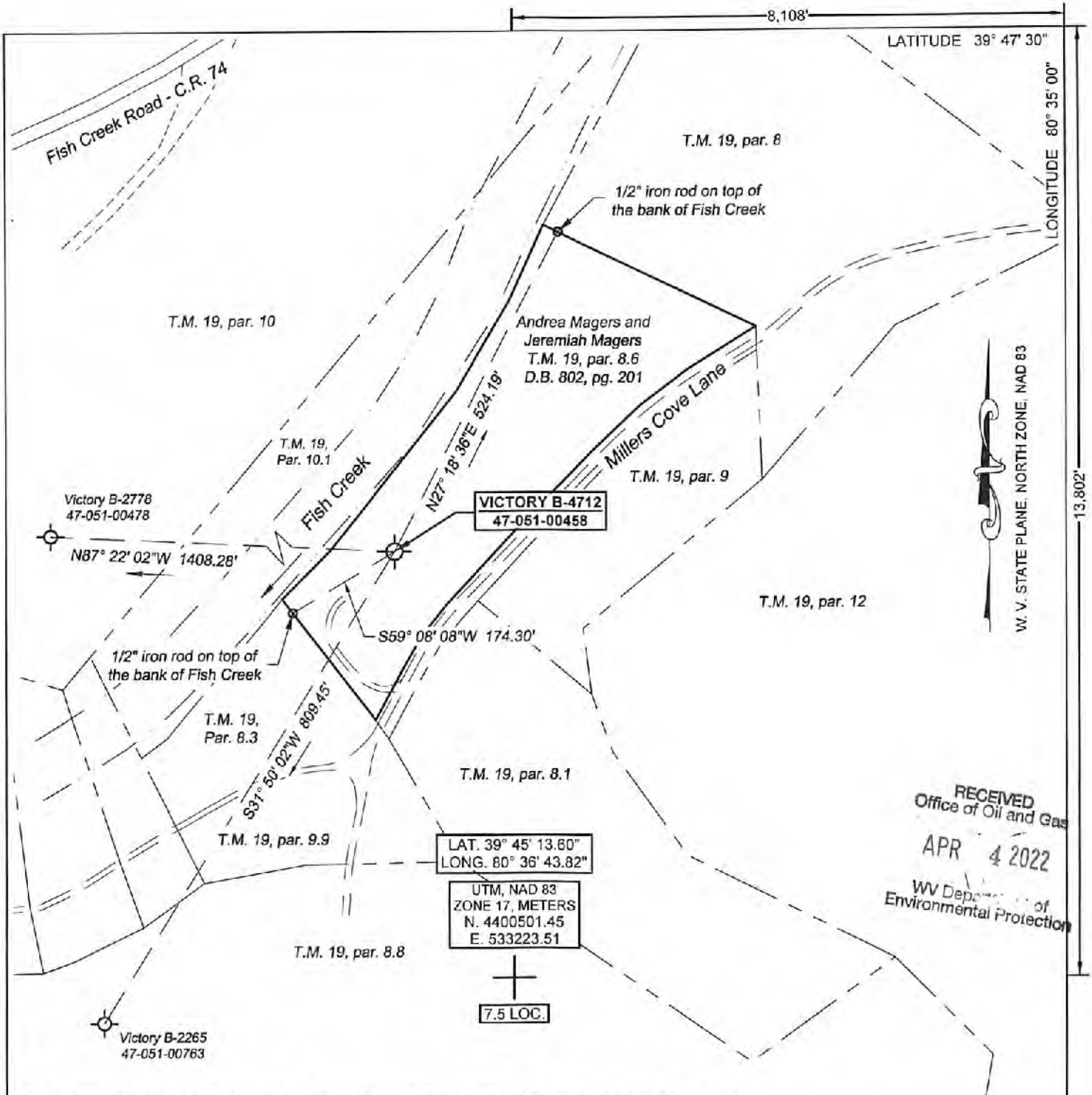
Storage Well Classification

- △ Active
 - ◻ Observation
 - ◊ Special
 - CPG Pipelines
- Well of Interest



**VictoryB Storage Field
Storage Well 4712
Marshall County, West Virginia**

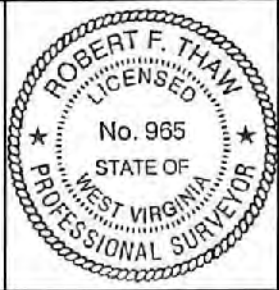
USGS Topographic Map (Scaled 2000 Ft/ In) to be included with PROJECT ENVIRONMENTAL INFORMATION FORM (PEIF).



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

FILE No 2101-2345-001-003
 DRAWING No. VICTORY B-4712
 SCALE 1"=200'
 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 MARCH 18 2022
 OPERATOR'S WELL No. 4712
 API WELL No. 47 051 - 00458W

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE COUNTY PERMIT
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 774.8' WATER SHED FISH CREEK
 DISTRICT LIBERTY COUNTY MARSHALL
 QUADRANGLE CAMERON, WV

SURFACE OWNER ANDREA MAGERS AND JEREMIAH MAGERS ACREAGE 3.66 ACRES
 OIL & GAS ROYALTY OWNER ANDREA MAGERS AND JEREMIAH MAGERS
 LEASE ACREAGE 88 LEASE No. 3032009-000, 3002298-000

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
 STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW
 FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) RE-PERFORATE

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION MAXTON, BIG INJUN ESTIMATED DEPTH 1738
 WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT BRAD NELSON
 ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS 455 RACETRACK ROAD
25325-1273 WASHINGTON, PA 15301

04/22/2022

N/A

WW-2B1
(5-12)

Well No. Victory B 4712

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 _____

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Office of Oil and Gas
APR 4 2022
WV DEPARTMENT OF
Environmental Protection

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.

4705100458W



Columbia Gas Transmission, LLC
1700 MacCorkle Ave., SE, Charleston, WV, USA 25325

March 31, 2022

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

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

Victory B 4712 (API 051-00458)

Please return permit to:

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

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Office of Oil and Gas
APR 4 2022
WV Department of
Environmental Protection

If you have questions, feel free to call.

Regards,

CHK# 055078
Amt \$650
Date 2/15/22

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

www.tcenergy.com

04/22/2022



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Plugging Vertical & Re-work Vertical Well Work Permit API: 47-051-00312 & 00458)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Wed, Apr 20, 2022 at 2:52 PM

To: Brad Nelson <Brad_Nelson@tcenergy.com>, Strader C Gower <strader.c.gower@wv.gov>, "Gayne J. Knitowski" <gayne.j.knitowski@wv.gov>, Eric Buzzard <ebuzzard@marshallcountywv.org>



I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

47-051-00312 - MAJORSVILLE SHALLOW 4437 - PLUGGING PERMIT**47-051-00458 - VICTORY B 4712 - RE-WORK VERTICAL PERMIT**

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry**Environmental Resource Specialist 3****West Virginia Department of Environmental Protection****Office of Oil & Gas****601 57th St. SE****Charleston, WV 25304****(304) 926-0499 ext. 41115****(304) 926-0452 fax****Wade.A.Stansberry@wv.gov**

4 attachments **47-051-00312 - Copy.pdf**
2500K **47-051-00458 - Copy.pdf**
2126K **IR-8 Blank.pdf**
233K **IR-26 Blank.pdf**
169K**04/22/2022**