



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, July 7, 2022
WELL WORK PERMIT
Vertical / Re-Work

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for ROCKPORT 12593
47-107-01750-00-00

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: ROCKPORT 12593
Farm Name: WADE, CARL & DIANNE
U.S. WELL NUMBER: 47-107-01750-00-00
Vertical Re-Work
Date Issued: 7/7/2022

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.

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



February 25, 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:

Rockport 12593 (API 107-01750)

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

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

CK# 055285
\$900⁰⁰

If you have questions, feel free to call.

Regards,

Maria Medvedeva
Senior Wells Engineer
Well Engineering & Technology
Columbia Gas Transmission, LLC
Off: 304-357-2445
Mob: 304-410-4313
maria_medvedeva@tcenergy.com

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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 Wood Steele Rockport
Operator ID County District Quadrangle

2) Operator's Well Number: Rockport 12593 3) Elevation: 1061

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

5) Proposed Target Formation(s): Oriskany Proposed Target Depth: 5741

6) Proposed Total Depth: 5870 (existing) Feet Formation at Proposed Total Depth: Helderberg Lime

7) Approximate fresh water strata depths: No water intervals reported by driller 2013

8) Approximate salt water depths: 1972 - 2270' MD / 1972 - 2270' TVD reported by driller 2013

9) Approximate coal seam depths: None reported by driller 2013

10) Approximate void depths,(coal, Karst, other): None reported by driller 2013

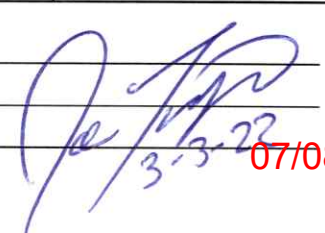
11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
Attempt to tighten 7" csg connection at 3300' MD. If not successful, perforate 7" casing and squeeze cement, install new 4-1/2" csg / cmt to surface, perf / frac to complete. Frac info: 500 gals HCl acid, 400 bbls base fluid, 25000 lbs sand.
* casing and equipment listed below are existing

13) **CASING AND TUBING PROGRAM** * existing

TYPE	SPECIFICATIONS			FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	20 *	B-35	59	41	24	at surface
Fresh Water	13.375 *	H-40	48	448	431	400 sx / surface
Coal						
Intermediate	9.625 *	J-55	36	2318	2301	760 sx / surface
Production	7 *	N-80	23	5709	5692	160 sx / @4590'
Production	4.5	L-80	11.6	5883	5870	685 sx
Liners						

Packers: Kind: _____
Sizes: _____
Depths Set _____


3-3-22
07/08/2022

WELL JOB PLAN		STS Well Engineering & Technology		PAGE 3	DATE JOB PREPARED: 2/14/2022
Objective: Integrity Improvement			LAST PROFILE UPDATE:		
TITLE: Collar leak repair		WORK TYPE: GPMC			
FIELD: Rockport	WELL: 12593				
STAT: WV	SHL (Lat/Long):	39.06037	-81.551477	API: 47-107-0175-0000	
TWP: Steele	BHL (Lat/Long):	39.06409	-81.5497	CNTY: Wood	

PROCEDURE

NOTE: Directional well profile. Gauge ring lost in the hole – appears to be at 5632' MD. Well has RBP set at 5568' MD / 5145 TVD and wellbore loaded with kill fluid 02/11/2020.
 - Cyclic 7" x 9-5/8" annular pressure from storage gas / native Devonian gas. Collar leak @ ~3300' MD (~39deg inclination, avg DLS at 3300 ft MD is 3 deg, highest DLS above 3300 ft MD is 7 deg @ 2825 ft MD).
 - Fluid level per 5/28/2020 Echometer at 3260'. Annulus left venting on 07/09/2020.

4710701750 ✓

Attempt to tighten the leaking 7" csg connection

- 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 initial flowstring and 7" x 9-5/8" annular pressures.
- 10 Blow down and load wellbore with fresh water kill fluid. Blow down annulus and leave venting.
- 11 Install second RBP @ ~5000' MD.
- 12 MIRU service rig.
- 13 Remove wellhead, unset slips on 7" casing and weld on pulling nipple.
- 14 Strip / NU 9" or 13" annular BOP on top of the casing head - there is no way of testing.
- 15 Perform baseline pre-work 7" casing pressure test to 2200 psi at surface. Chart leak-off rate to compare to later.
- 16 Pull and attempt to tighten connection leaks as follows:
 - a. Pull 70 Klbs over hook load and tighten.
 - b. Pull 75 Klbs over hook load and tighten.
 - c. Pull 80 Klbs over hook load and tighten.
 - d. Pull 85 Klbs over hook load and tighten.
- 17 Pressure test casing to 2200 psig surface. Consult with WE&T engineer.

If pressure test passes and leak is resolved proceed to Step 18.

If pressure test fails process to Step 30.
- 18 NP annular BOP and reinstall DSPA and MV.
- 19 Pressure test wellhead seals.
- 20 NU 7" BOPs (double ram + annular) and pressure test to 250 psi low and 2200 psi high.
- 21 Pull RBPs with wireline.
- 22 Fish lost gauge ring and clean to TD.
- 23 Swab well to re-establish gas flow.
- 24 RDMO and reconnect to pipeline.
- 25 Notify WET Project Support that well is back in-service.
- 26 Reclaim R&L.
- 27 Commission well by completing, processing, and retain for records the Wellsite Review and Turnover Form.
- 28 Work is complete. Notify REG / WE&T that well is ready for storage service.

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If pressure test failed.

- 30 ND annular BOP, pull and reset 7" casing slips. Install new casing spool.
- 31 Pressure test wellhead seals.
- 32 NU 7" BOPs (double ram + annular) and pressure test 250 psi low and 2200 psi high.
- 33 Pull RBPs with wireline.
- 34 Fish lost gauge ring.
- 35 Proceed to step 40.

Perforate-Squeeze Cement. Install new 4-1/2" Flowstring

- 40 Install composite DBP at ~3500'.
- 41 Perforate 7" casing at ~3480' and perform an injection / circulation test.

If circulation is established, proceed with procedure.

If circulation is not established, consult with WE&T engineer.
- 42 Install composite cement retainer above perforations, TIH, squeeze cement to surface, TOO and WOC.
- 43 Drill cement retainer and cement down to DBP.
- 44 Obtain a CBL.

[Handwritten Signature]
3-3-22

PREPARED BY: Maria Medvedeva	REVIEWED BY: Jim Amos	APPROVED: Brent Criser
PREP DATE: 2/14/2022		

07/08/2022

WELL JOB PLAN

STS Well Engineering & Technology

PAGE 4

DATE JOB PREPARED: 2/14/2022

Objective: Integrity Improvement

LAST PROFILE UPDATE:

TITLE: Collar leak repair		WORK TYPE: GPMC	
FIELD: Rockport	WELL: 12593		
STAT: WV	SHL (Lat/Long): 39.06037 -81.551477	API: 47-107-0175-0000	
DIST/TWP: Steele	BHL (Lat/Long): 39.06409 -81.5497	CNTY: Wood	

MANAGEMENT OF CHANGE (MOC) DETAILS

State reason for MOC.

4710701750W

- 45 Pressure test connection leak to an equivalent bottom-hole pressure of 2200 psig at depth of connection leak.
- 46 Drill out composite DBP and clean to TD.
- 47 Run new 4-1/2" casing and cement to surface per Cementing Procedure.
- 48 WOC - duration to be determined by cement compressive strength lab testing results.
- 49 Obtain a CBL and HRVRT logs.
- 50 Pressure test casing to 5000 psig surface pressure, for future stimulation.
- 51 ND BOPs and install remainder of new wellhead.
- 52 RIH and spot 500 gals 20% HCl acid and TFW.
- 53 Perforate and perform acid breakdown,
- 54 Swab / flow well to re-establish gas flow.
- 55 Fracture stimulate if deemed necessary per Frac Procedure.
Flow well to re-establish gas flow and perform 60 minute flowback test.
- 56 Notify WET Project Support that well is back in-service.
- 57 Reclaim R&L.
- 58 Reconnect well line.
- 59 Paint wellhead and well line.
- 60 Commission well by completing, processing, and retain for records the Wellsite Review and Turnover Form.
- 61 Notify REG that well is ready for storage service.

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PREPARED BY: Maria Medvedeva	REVIEWED BY: Jim Amos	APPROVED: Brent Criss
PREP DATE: 2/14/2022		

07/08/2022

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

- well record summary

API 47-107-01750 County Wood District Steele
Quad Rockport Pad Name Wade Field/Pool Name Rockport
Farm name Wade, Carl & Dianne Well Number 12593
Operator (as registered with the OOG) Columbia Gas Transmission, LLC
Address 1700 MacCorkle Ave SE City Charleston State WV Zip 25325-1273

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 39.080372 / 4,323,620.9 Easting -81.551475 / 452,287.3
Landing Point of Curve Northing N/A - not horizontal Easting N/A - not horizontal
Bottom Hole Northing 39.064096 / 4,324,033.2 Easting -81.549699 / 452,443.4

Elevation (ft) 1061 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)

Intermediate: fresh water base w/ polymer + KCl + starch + atapulgite

Production: fresh water base w/ polymer + starch

Date permit issued 7/29/14 Date drilling commenced 10/15/14 Date drilling ceased 11/11/14
Date completion activities began 11/17/14 Date completion activities ceased 12/10/14
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft none encountered Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2140 - 2270 Void(s) encountered (Y/N) depths N
Coal depth(s) ft none encountered Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by:

JPT

07/08/2022

WR-35
Rev. 8/23/13

API 47-107 - 01750 Farm name Wade, Carl & Dianne Well number 12593

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24"	20"	41' KB	New	B-35 / 59 ppf	none	Y
Surface	17.5"	13.375"	448' KB	New	H-40 / 48 ppf	none	Y
Coal							
Intermediate 1	12.25	9.625"	2318' KB	New	J-55 / 36 ppf	none	Y
Intermediate 2							
Intermediate 3							
Production	8.75	7"	5709' KB	New	N-80 / 23 ppf	None	N
Tubing							
Packer type and depth set							

Comment Details KB is 17 ft above GL.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Neat	34	15.6	1.18	42	0	16
Surface	Class A	400	15.6	1.19	476	0	10
Coal							
Intermediate 1	65-35 Poz / Class A	600 / 160	13.1 / 15.6	1.71 / 1.19	1026 / 190	0	12
Intermediate 2							
Intermediate 3							
Production	Class A	160	15.6	1.21	194	4590	36
Tubing							

Drillers TD (ft) ⁵⁸⁷⁰ _____ Loggers TD (ft) ⁵⁸⁵¹ _____
 Deepest formation penetrated Helderberg dolomite Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) ²³⁹⁴ _____

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

13.375" csg: four bow-spring on jts 1, 3, 5, and 7
 9.625" csg: six bow-spring on jts 1, 10, 20, 30, 40, and 50
 7" csg: six spiral rigid on jts 1, 2, 3, 4, 5, and 6 - six bow-spring on jts 7, 8, 10, 12, 13, and 14.

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____ WV Department of Environmental Protection

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS 6.125" borehole from 5720 to 5870 ft.

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

SRZ

07/08/2022

WR-35
Rev. 8/23/13

API 47- 107 - 01750 Farm name Wade, Carl & Dianne Well number 12593

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
		N/A	N/A		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	12/8/14	20	3200	2600	3680	29700	638	239 MSCF N2

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Please insert additional pages as applicable.



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Rev. 8/23/13

API 47- 107 - 01750 Farm name Wade, Carl & Dianne Well number 12593

PRODUCING FORMATION(S)	DEPTHS		
Oriskany Sandstone	5323 - 5370	TVD	5741 - 5788 MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1050 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 7,000 mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION TOP DEPTH IN FT NAME TVD BOTTOM DEPTH IN FT TVD TOP DEPTH IN FT MD BOTTOM DEPTH IN FT MD DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)

siltstone	0	46	0	46	none
sand	46	476	46	476	none
shale, sand, siltstone	476	1972	476	1972	Red Rock 1264 - 1428' & 1526 - 1586', No Fluid
Salt Sand	1972	2270	1972	2270	salt water
Pocono shale	2270	2614	2270	2616	none
Coffee / Sunbury shale	2614	2632	2616	2634	none
Berea horizon	2632	2634	2634	2636	none
Devonian shale	2634	5192	2636	5610	none
Marcellus shale	5192	5204	5610	5622	none
Onondaga limestone	5204	5323	5622	5741	none
Oriskany sandstone	5323	5342	5741	5760	upper, storage gas
Oriskany sandstone	5342	5370	5760	5788	lower, storage gas
Helderberg limestone	5370	5451	5788	5870	none
TD		5451		5870	

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Please insert additional pages as applicable.

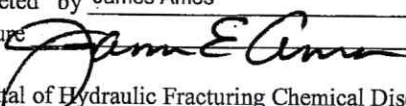
Drilling Contractor Yost Drilling, LLC
Address 313 Steele Hill Road City Mt. Morris State PA Zip 15349

Logging Company Baker Atlas Logging
Address W Main St City Buckhannon State WV Zip 26201

Cementing Company Universal Well Service / Nabors
Address Route 5 Hall Rd / 528 Industrial Park Rd City Buckhannon / Jane Lew State WV / WV Zip 26201 / 26378

Stimulating Company Nabors Completion & Production
Address 528 Industrial Park Rd City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by James Amos Telephone 304-483-0073
Signature  Title Sr Well Services Engineer Date 12/23/14

Submission of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry



07/08/2022

WW-2A
(Rev. 6-14)

1.) Date: 02/15/2022
2.) Operator's Well Number Rockport 12593
State County Permit
3.) API Well No.: 47- 107 - 01750

**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 Carl E. and Dianne L. Wade ✓
Address 9784 Slate Creek Road
Rockport, WV 26169
(b) Name _____
Address _____
(c) Name _____
Address _____
5) (a) Coal Operator
Name Not operated
Address _____
(b) Coal Owner(s) with Declaration
Name Not operated
Address _____
(c) Coal Lessee with Declaration
Name Not operated
Address _____

6) Inspector Joe Taylor
Address 1478 Clavlick Road
Ripley, WV 25271
Telephone 304-380-7469

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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: Maria Medvedeva
Its: Senior Wells Engineer Storage Technical Services
Address: 1700 MacCorkle Ave SE
Charleston WV 25314-1273
Telephone: 304-410-4313
Email: maria_medvedeva@tcenergy.com

Subscribed and sworn before me this 28th day of February, 2022

Michael T. Donnelly Notary Public
My Commission Expires 10-30-2026

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

07/08/2022

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



February 25, 2022

Carl E. and Dianne L. Wade
 9784 Slate Creek Road
 Rockport, WV 26169

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to repair an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Rockport 12593 (API 47-107-01750).

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

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

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

Rockport WV 26169

OFFICIAL USE

Certified Mail Fee	\$3.75
Extra Services & Fees (check box, add fee as appropriate)	\$7.05
<input type="checkbox"/> Return Receipt (hardcopy)	\$11.00
<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	\$8.95
Total Postage and Fees	\$15.75

Sent To: Carl & Dianne Wade
 Street and Apt. No., or PO Box No.: 9784 Slate Creek Rd
 City, State, ZIP+4®: Rockport WV 26169

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> C. D. Wade <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. D. Wade</p> <p>C. Date of Delivery MAR 2 2022</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to: Carl E. Wade & Dianne L. Wade 9784 Slate Creek Road Rockport, WV 26169</p>	<p>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 type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restrict Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Restricted Delivery</p>
<p>2. Article Number (Transfer from service label) 7021 1970 0001 1850 3669</p>	<p>7021 1970 0001 1850 3669</p>

9590 9402 6856 1104 6318 56

07/08/2022

www.tcenergy.com

4710701750w

WW-2A Surface Waiver
(4/16)

SURFACE OWNER WAIVER

County Wood Operator Columbia Gas Transmission LLC
Operator well number Rockport 12593

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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 **FIFTEEN (15) 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.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

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 Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ___ including a work order on Form WW2-B, a survey plat, WW-9, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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

FOR EXECUTION BY A CORPORATION, ETC.

Signature Date _____

Print Name

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Office of Oil and Gas
MAR 10 2022

WV Department of Environmental Protection

Signature Date

07/08/2022

4710701750W

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

* coal not operated

County Wood
Operator Columbia Gas Transmission LLC

Operator's Well Number Rockport 12593

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. 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.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature Date

Company Name _____
By _____
Its _____ Date

Signature Date

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WV Department of
Environmental Protection

07/08/2022

**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
SHL	O.H. Blair	United Fuel Gas Company	Storage Lease - 1046161-002	359 / 200-202
BHL	A.J. Holbert et al	United Fuel Gas Company	Storage Lease 1050678	360 / 504-506

**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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MAR 10 2022
WV Department of
Environmental Protection

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: Maria Medvedeva
 Senior Wells Engineer Storage Technical Services

07/08/2022

WW-2B1
(5-12)

Well No. Rockport 12593

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 contactor 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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WW-9
(5/16)

API Number 47 - 107 - 01750
Operator's Well No. Rockport 12593

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) Tygart Creek Quadrangle Rockport

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: N/A

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number 34-167-23862)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Mud Master 64054; Reserve Environmental Services (WMGR 123SW008)
Appalachian Water Services (WMGR 123SW001))

Will closed loop system be used? If so, describe: yes - steel flow line to tanks

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

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

Additives to be used in drilling medium? NaCl, biocide, soda ash, polymer, starch, CaCO3, HCl acid

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) N/A

-Landfill or offsite name/permit number? To be managed by Waste Management and US Ecology for disposal at permitted landfill

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Maria Medvedeva*

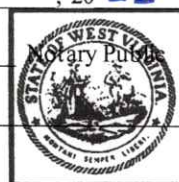
Company Official (Typed Name) Maria Medvedeva

Company Official Title Senior Wells Engineer Storage Technical Services

Subscribed and sworn before me this 28th day of February, 20 22

Michael T. Donnelly

My commission expires 10-30-2026



OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Michael T. Donnelly
3940 Green Valley Road
Huntington WV 25701
My Commission Expires October 30, 2022

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WV Department of
Environmental Protection

3-3-22

07/08/2022

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

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: Joe Taylor

Comments: _____

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Title: OGC Inspector

Date: 3-3-22

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): Tygart Creek Quad: Rockport
Farm Name: Carl & Dianne Wade

- 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. Fuel, oil, and lubricants will be stored on site, but located within secondary containment. Accidental spills from construction equipment, well treatment fluids, and produced well fluids are the only possible source of contamination to groundwater. Drilling and flowback fluids to be stored in tanks. 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. Tanks to be monitored 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.

Tygart Creek is at a distance of 0.19 miles W.

The Lubeck PSD WV3305404 is a Well Head Protection Area at a distance of 12.9 miles NW from discharge area. The Ravenswood Municipal Water Works is a Well Head Protection Area at a distance of 12.9 miles SW from discharge area.

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

N/A

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WV Department of
Environmental Protection

- 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 and JSA meetings groundwater protection will be a topic of discussion.

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

No fertilizer will be stored on site. Fuel, oil, and lubricants will be stored on site, but located within secondary containment. Spills from construction equipment, well treatment fluids, and produced well fluids are the only possible source of contamination to groundwater.

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

Signature: [Signature]

Date: 04/15/2022

[Signature]

WV DEP Reclamation Plan - Overview

Rockport 12593 (API 47-107-01750)

- 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



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[Handwritten Signature]
 3-3-22

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 WV Department of
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4710701750W

WV DEP Reclamation Plan - Overview

Rockport 12593 (API 47-107-01750)

- 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



07/08/2022

[Handwritten Signature]
 22-3-3-22

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 MAR 10 2022
 WV Department of
 Environmental Protection

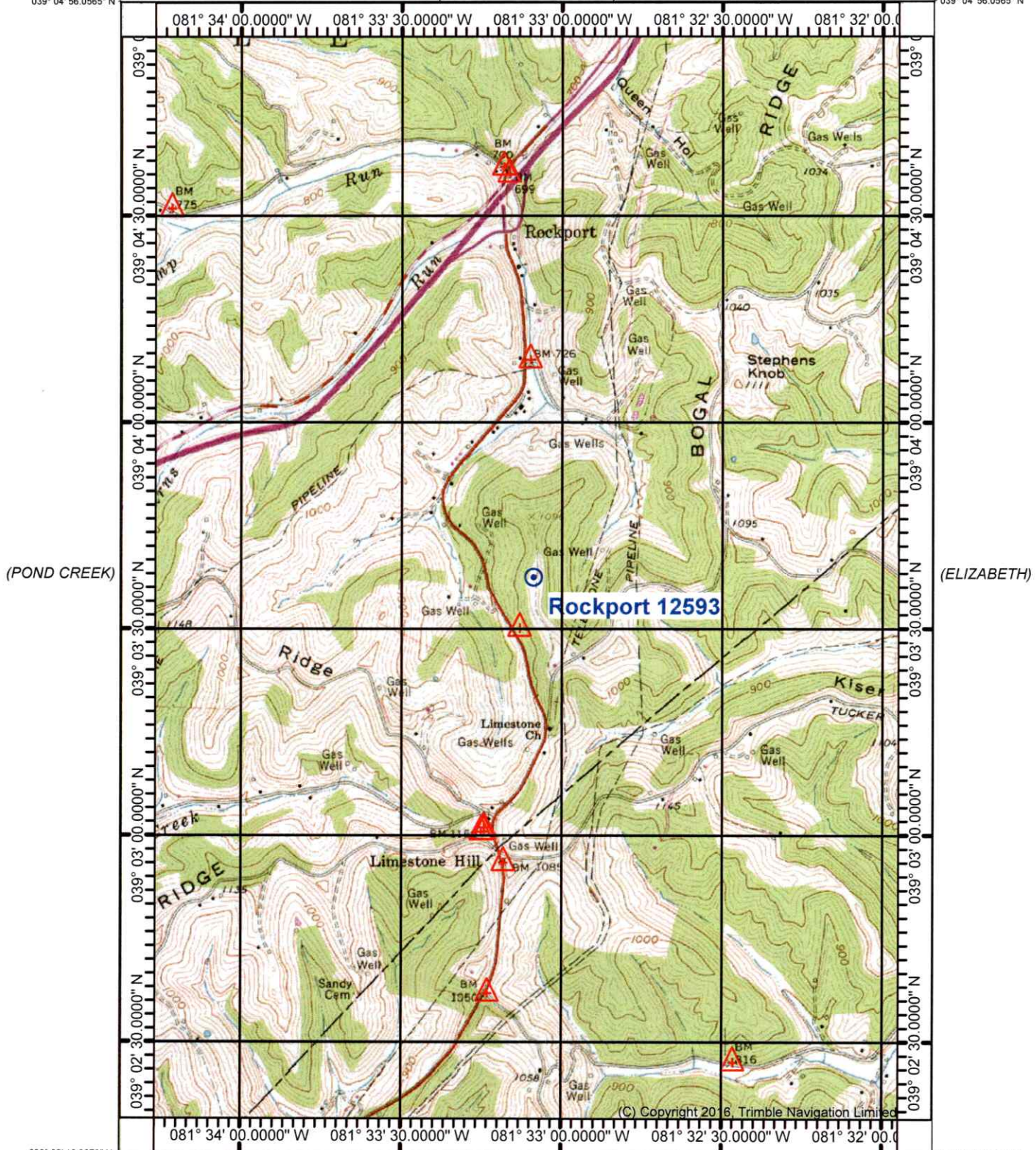
4710701750W

(LUBECK)



ROCKPORT QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES (KANAWHA)

081° 34' 16.0062" W (SOUTH PARKERSBURG) 081° 31' 56.3458" W
039° 04' 56.0565" N 039° 04' 56.0565" N



(POND CREEK)

(ELIZABETH)

(SANDYVILLE)

(REEDY)

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

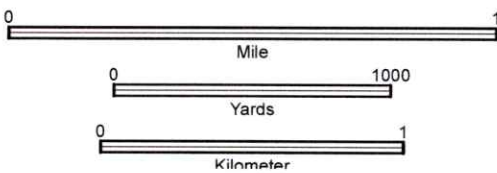
North American 1983 Datum (NAD83)

To place on the predicted North American
1927 move the projection lines 9M N and
13M E

Declination



(LIVERPOOL)
SCALE 1:24000



CONTOUR INTERVAL 20 FT

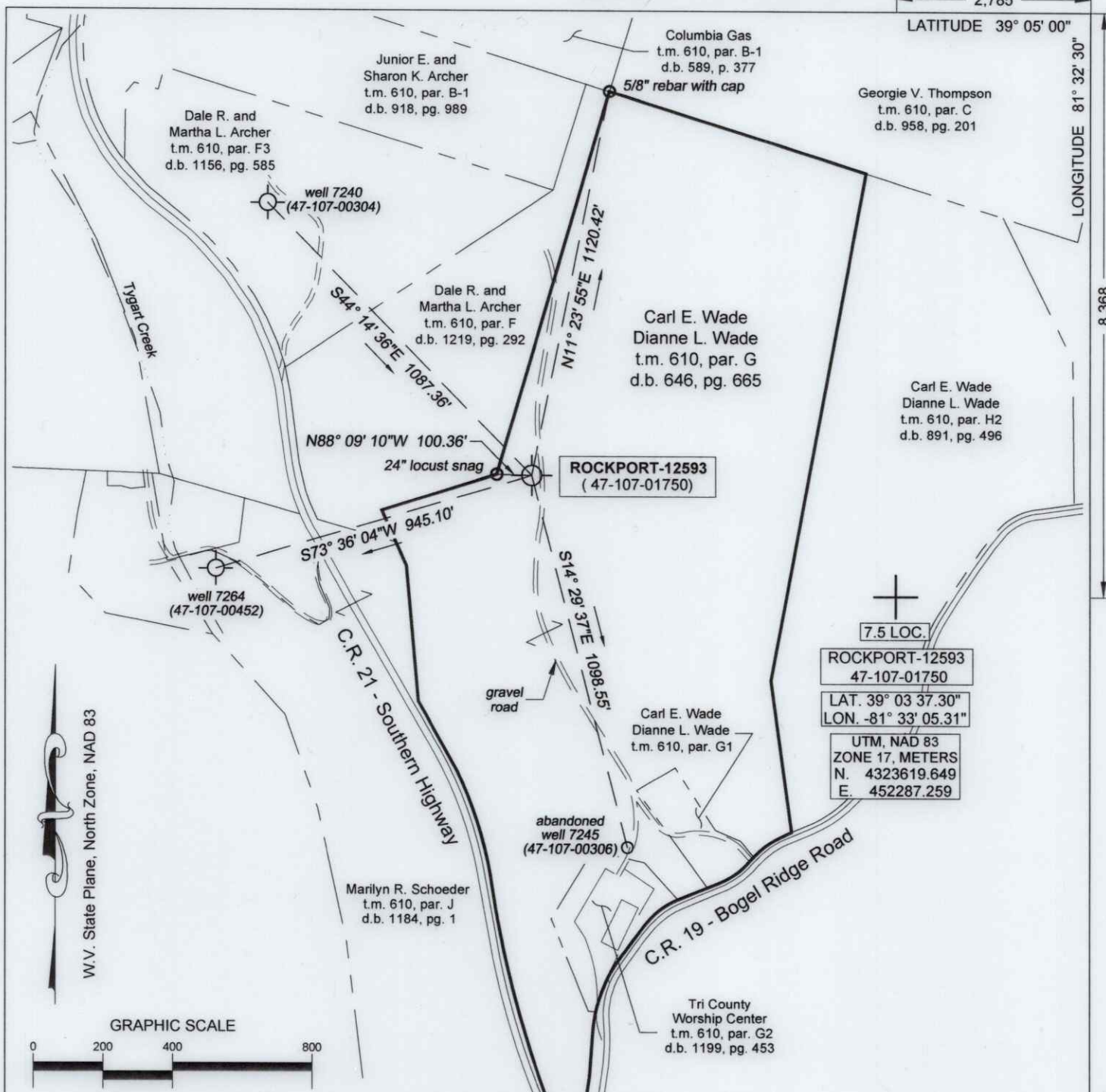
39081-A4-TM-024
ROCKPORT, WV
JAN 1, 1975

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4710701750 W

2,785
LATITUDE 39° 05' 00"
LONGITUDE 81° 32' 30"

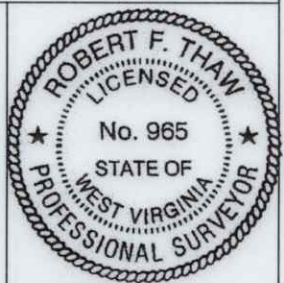


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. 2001-2345-001-011
 DRAWING No. ROCKPORT 12593
 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 FEBRUARY 25 2022
 OPERATOR'S WELL No. 12593
 API WELL No. 47 107 - 01750 W

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1069.2' WATER SHED TYGART CREEK
 DISTRICT STEELE COUNTY WOOD
 QUADRANGLE ROCKPORT, WV

SURFACE OWNER CARL E. WADE AND DIANNE L. WADE ACREAGE 49.95
 OIL & GAS ROYALTY OWNER O.H BLAIR (SURFACE) A.J. HOLBERT, ET AL (BOTTOM HOLE)

LEASE ACREAGE 49.95 (SURF.) 56.5 (BOTTOM HOLE) LEASE NO. 1046161-002 (SURFACE) 1050678 (BOTTOM HOLE)

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

TARGET FORMATION ORISKANY ESTIMATED DEPTH 5415 (TVD) 5870 (MD)
 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

07/08/2022



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

4710701750 rework permit issued

2 messages


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

Thu, Jul 7, 2022 at 1:25 PM

To: dnohe@woodcountywv.com, Wade A Stansberry <wade.a.stansberry@wv.gov>, Jeffrey W McLaughlin <jeffrey.w.mclaughlin@wv.gov>, maria_medvedeva@tcenergy.com

To whom it may concern this permit has been issued.

James Kennedy
WVDEP OOG

 **4710701750.pdf**
5983K

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

Thu, Jul 7, 2022 at 2:00 PM

To: dnohe@woodcountywv.com, Wade A Stansberry <wade.a.stansberry@wv.gov>, Jeffrey W McLaughlin <jeffrey.w.mclaughlin@wv.gov>, maria_medvedeva@tcenergy.com

Forgot to add the Stamped page use this copy.

Thank you
[Quoted text hidden]

 **4710701750.pdf**
6195K

07/08/2022