



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, January 12, 2023
WELL WORK PLUGGING PERMIT
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for COCO C 12440
47-039-06118-00-00

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

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

James A. Martin
Chief

Operator's Well Number: COCO C 12440
Farm Name: MAYNOR-BUCHNER, SHERB
U.S. WELL NUMBER: 47-039-06118-00-00
Vertical Plugging
Date Issued: 1/12/2023

I

4703906118P

PERMIT CONDITIONS

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

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

01/13/2023

4703906118P

1) Date 10.20, 2022
2) Operator's
Well No. Coco C 12440
3) API Well No. 47-039 - 06118

chk# 055006
\$100⁰⁰

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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

5) Location: Elevation 804 Watershed Blue Creek
District Elk County Kanawha Quadrangle Blue Creek, WV

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

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Terry Urban Name Next Lvl Energy, LLC
Address P.O. Box 1207 Address 736 W Ingomar Rd, Units 268
Clendenin, WV 25045 Ingomar, PA 15127-6613


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

Refer to enclosed:

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

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

Work order approved by inspector  Date 10.31.22

01/13/2023

WELL JOB PLAN				STS Well Engineering & Technology				PAGE 1		DATE JOB PREPARED: 9/20/2022	
Objective: Plug and Abandon								LAST PROFILE UPDATE:			
TITLE: Plug and Abandon				WELL ID: 12440				WORK TYPE: GPMC			
FIELD: Coco C				SHL (Lat/ Long) 38.435904 -81.446954				LEASE #: 27204			
STATE: WV				BHL (Lat/Long) 38.435904 -81.446954				API: 47-039-06118			
DIST/TWP: Elk				WELLLINE #: X52CW12440				CNTY: Kanawha			
EXISTING TUBULAR CONFIGURATION		OD (inches)	WEIGHT (PPF)	GRADE	THREAD	DEPTH GL (ft)		FORMATION: refer to MISC INFORMATION section			
						TOP	BOTTOM	PAY: Oriskany			
Conductor		16	42.0	B-35		0	43	TD: 5279 TVD /			
Surface		11 3/4	42.0	H-40	8 rd	0	421	5290 MD			
Intermediate		8 5/8	32.0	J-55	8rd LTC	0	2168	KB-GL:			
Production		5 1/2	17.0	I-80	8rd LTC	0	5151	GL: 807			
Tubing		2 3/8	4.7	J-55	8rd EUE	0	5127	CSG		DEPTH	WELLBORE SCHEMATIC
								<i>Refer to "Wellbore Diagram" tab</i>			
Perforations								Refer to "Wellbore Diagram" tab			
Perforations								No perforations. Delta frac'ed with nitrogen assist			
Wellhead								API 5k, 5-1/2" flowstring x 8-5/8" support, 2-3/8" 8 rrd EUE connection			
D.H. EQUIPMENT				TYPE				DEPTH (ft)			
PACKER INFO: Upper											
Lower											
NIPPLE PROFILE INFO: Upper											
Lower											
SSSV INFO:											
CEMENT INFO								TOC (ft)			
16		sanded in									
11 3/4		220 sks to surface, circ'd 6 bbl cmt to surface						0			
8 5/8		440 sks to surface, returned 15 bbls cmt to surface						0			
5 1/2		cemented with 160 sks						4168 SBL			
2 3/8		Not Cemented									
MISC INFORMATION											
REFER TO WELL SUMMARY RPT, WELLBORE DIAGRAM, ELOG, ETC. (see spreadsheet tabs below)											
Kill Fluid Calculation * Note that kill fluid calculation tabs are hidden											
Maximum calculated bottom-hole pressure (for reference only):				2080		psig		* input			
Maximum storage field surface pressure (MAOP):				1800		psig		* input			
Well TD:				5279		ft TVD		* input			
Top of the Oriskany:				5214		ft TVD		* input			
Calculated maximum BH pressure at top of zone:				2060		psig		* output Kill Fluid (TOZ)			
Kill fluid density at top of zone @: 200				psi OB		8.34		ppg * output Kill Fluid (TOZ)			
Top of Marcellus:				5046		ft TVD		* input			
Calculated maximum BH pressure at depth of BP:				2052		psig		* output Kill Fluid (BP)			
Kill fluid density at depth of BP @: 200				psi OB		8.58		ppg * output Kill Fluid (BP)			
Required minimum kill fluid density:				8.6		ppg		* greater of the two			
Current AOF:				2,335		MCF/D					
Top historical AOF:				2,876		MCF/D					
Last MVRT:				None run.							
SBL:				12.14.08 SBT log showed 5-1/2" cement top at 4168'.							
PROPOSED YEAR: 2023				ERCB PERMIT REQD: YES___ NO_X__				(Internal) PDS Required: YES___ NO___			
PREPARED BY: Mitch Chenoweth				DT. APPLIED: ISSUED:				APPROVED: Brent Criser			
PREP DATE: 9/20/2022				REVIEWED BY: James Amos							

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WELL JOB PLAN		STS Well Engineering & Technology		PAGE 2	DATE JOB PREPARED: 9/20/2022
Objective: Plug and Abandon			LAST PROFILE UPDATE:		
TITLE: Plug and Abandon			WORK TYPE: GPMC		
FIELD: Coco C	WELL: 12440				
STAT: WV	SHL (Lat/Long):	38.435904 -81.446954	API: 47-039-06118		
TWP: Elk	BHL (Lat/Long):	38.435904 -81.446954	CNTY: Kanawha		
PROCEDURE					
<p>NOTE: Cement used will be API Class A, slurry weight 15.6ppg, slurry yield 1.18 cuft/sk or API Class L, slurry weight 15.6ppg, slurry yield 1.14 cuft/sk, as per the approved WVDEP Variance Order No.2022-13. All spacers will be 6% Bentonite gel.</p>					
<ol style="list-style-type: none"> 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 serviceable wellhead valves. 9 Document and report to WE&T the initial casing and annular pressures. 10 Blow down all annuli, replace fittings as needed, and leave annuli open to atmosphere for monitoring. 11 Load / top 5-1/2" x 8-5/8", 8-5/8" x 11-3/4" annuli with kill fluid. Document volumes. Top off remaining annuli with FW. Document volumes. 12 Kill well with minimum 8.6 ppg viscosified fluid. After well is dead spot 10 bbls LCM pill on bottom. 13 Dig around base of wellhead to uncover casing tops and remove cement if present. 14 MIRU service rig. 15 Remove wellhead equipment down to the tubing spool. 16 Screw in 2-3/8" nipple with full port valve into top of hanger. 17 Strip over and NU 7-1/16" Cameron 5K BOPE (blind / shear + pipe + anular). Will need kill and choke outlets below blind / shear. 18 Function and pressure test BOPE to low (250 psig) and high (2500 psig). 19 Unseat hanger, PU and remove hanger, wash to TD. 20 <u>If able to wash to TD</u> then install balanced cement plug from TD to 4200' 21 <u>If not able to wash to TD</u> round trip to PU 2-3/8" DP with cut-lip shoe and install balanced cement plug from TD to 4200' 22 PU above cement top, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC a minimum of 8 hrs. 23 RIH and tag cement. If cement top is deeper than 4400' then spot a second balanced cmt plug. 24 Install a CIBP as close to above the cement top as feasible. 25 Top off 5-1/2" with kill fluid and perform 500 psig pressure test to verify integrity of BP. 26 Perforate 5-1/2" casing above the CIBP or top of cement behind 5-1/2", whichever is shallower, attempt to circulate to surface or establish injection. <p>Consult with WE&T engineer on results.</p> <ol style="list-style-type: none"> 27A If circulation to surface established, consult with WE&T engineer for procedure: <ul style="list-style-type: none"> > Circulate kill weight fluid until good kill density fluid is returned. > RIH with sliding-sleeve style cement retainer on work string. > Set retainer above perfs. > Establish circulation. > Squeeze cement behind 5-1/2" casing with pre-determined cement volume that occupies no more annular volume than that required to place top of cement to 1700'. > Disengage from retainer, reverse circulate to clean tubulars, and TOH. > WOC 24 hours. > Obtain CBL. 27B If no circulation to surface, but injection established, consult with WE&T engineer for procedure: <ul style="list-style-type: none"> > RIH with sliding-sleeve style cement retainer on work string. > Set retainer above perfs. > Establish injection. > Disengage from retainer and spot cement at bottom of work string. > Squeeze cement behind 5-1/2" casing with pre-determined cement volume that occupies no more annular volume than that required to place top of cement to 1700'. > Disengage from retainer, reverse circulate to clean tubulars, and TOH. > WOC 24 hours. > Obtain CBL. 27C If circulation / injection is not established, perforate (per WE&T engineer) and repeat process above in 100' interval until annular barrier is installed. <ul style="list-style-type: none"> * Note that during steps above cement plugs must be installed across all perf zones, casing shoes, and O/G/W zones. 28 Release all annular pressure and top off. 29 ND BOPE. 30 Weld pulling nipple on 5-1/2" casing, pull seals and slips. 					
PREPARED BY:	Mitch Chenoweth	REVIEWED BY:	James Amos	APPROVED:	Brent Criser
PREP DATE:	9/20/2022				



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WELL JOB PLAN		STS Well Engineering & Technology		PAGE 3	DATE JOB PREPARED: 9/20/2022
Objective: Plug and Abandon				LAST PROFILE UPDATE:	
TITLE: Plug and Abandon			WORK TYPE: GPMC		
FIELD: Coco C	WELL: 12440				
STAT: WV	SHL (Lat/Long): 38.435904	-81.446954	API: 47-039-06118		
DIST/TWP: Elk	BHL (Lat/Long): 38.435904	-81.446954	CNTY: Kanawha		

PROCEDURE (continued)

- 31 NU 11" BOPE (blind ram + pipe ram + annular) on top of the casing head. Need kill / choke outlets below blind / shear.
- 32 Function and attempt to pressure test BOPE to low (250 psig) and high (2500 psig). Report results to WE&T engineer.
- 33 Wireline freepoint 5-1/2" casing. Cut and pull all 5-1/2" casing that is free.
- 34 Obtain CBL inside 8-5/8" casing. Provide digital copy of log to WE&T engineer and consult to confirm next steps.
Per well records anticipated 8-5/8" annulus top of cement is surface.
- 35 Install balanced cement plugs from CIBP to surface.
- 36 ND BOPE.
- 37 Grout all annuli as deep as possible.
- 38 RDMO service rig.
- 39 Erect monument per state regulations. Reclaim location and lease road.
- 40 P&A complete.
- 41 Notify REG / WE&T / Project controller that project is in-service.

PREPARED BY: Mitch Chenoweth	REVIEWED BY: James Amas	APPROVED: Brent Criser
PREP DATE: 9/20/2022		

Handwritten signature and date: 10-31-22

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~ not to scale ~

COCO C 12440

Proposed P&A

(as of 09/13/2022)

Sea Level @ 804 ft

Fresh Water Depth @ 100' (damp)

Salt Sand 933' - 1336'
1/2" water stream observed @ 933',
3" stream at 1049'

Little Lime 1493' - 1532'

Big Lime 1548' - 1586'

Weir Sand 1794' - 1969'
show oil / gas'

Sunbury Shale 2110' - 2122'

16" 42# B-35 casing @ 32'
- Not cemented. Sanded in.

11-3/4" 42# H-40 casing @ 421'
- Cemented with 220 sxs. 15 bbls
returned to surface.

8-5/8" 32# J-55 csg @ 2168'
- Cemented with 440 sx. 15 bbls
returned to surface.

TOC @ 4168' per 12/14/2008 SBT.

Attempts will be made to perforate and
squeeze cement behind 5-1/2" casing.

Light grey fill indicates cement in
place during well construction.

Bridge plug

Dark grey fill indicates cement placed
during P&A.

Marcellus 5046' - 5071'

Onondaga 5073' - 5214'

Oriskany 5214' - 5235'
(gas storage)

Helderberg Lime 5234' - 5279'

5-1/2" 17# I-80 casing @ 5151'
- Cemented with 160 sx.

2-3/8" 4.7# J-55 tubing to be pulled

4-3/4" openhole
TD 5279'

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Handwritten signature and date: 10-31-22

~ not to scale ~

COCO C 12440

Prior to P&A
(as of 09/13/2022)

Sea Level @ 804 ft

Fresh Water Depth @ 100' (damp)

Salt Sand 933' - 1336'
1/2" water stream observed @ 933',
3" stream at 1049'

Little Lime 1493' - 1532'

Big Lime 1548' - 1586'

Weir Sand 1794' - 1969'
show oil / gas'

Sunbury Shale 2110' - 2122'

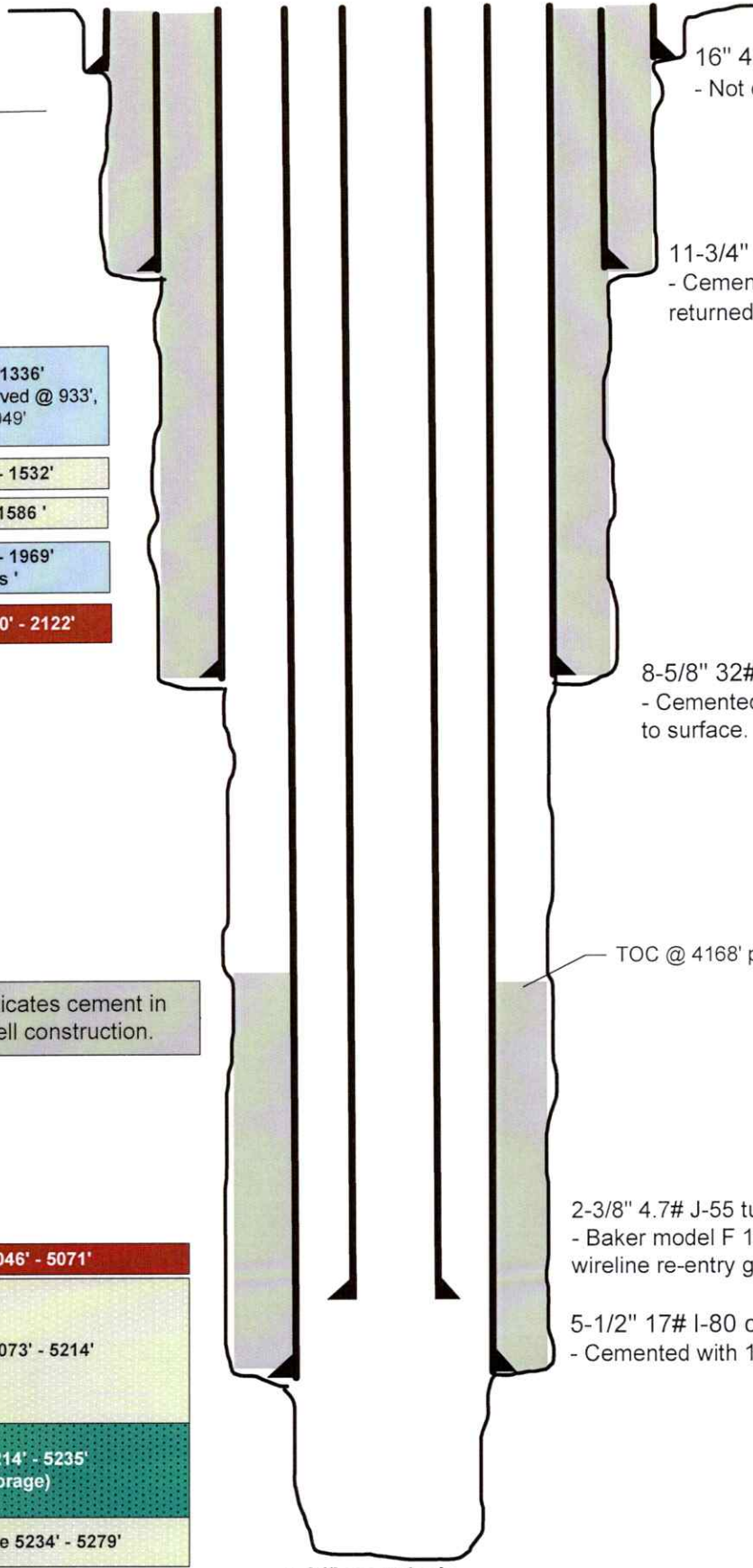
Light grey fill indicates cement in place during well construction.

Marcellus 5046' - 5071'

Onondaga 5073' - 5214'

Oriskany 5214' - 5235'
(gas storage)

Helderberg Lime 5234' - 5279'



16" 42# B-35 casing @ 32'
- Not cemented. Sanded in.

11-3/4" 42# H-40 casing @ 421'
- Cemented with 220 sxs. 15 bbls returned to surface.

8-5/8" 32# J-55 csg @ 2168'
- Cemented with 440 sx. 15 bbls returned to surface.

TOC @ 4168' per 12/14/2008 SBT.

2-3/8" 4.7# J-55 tubing @ 5127'
- Baker model F 1.81" seating nipple and wireline re-entry guide ran on bottom (1.6')

5-1/2" 17# I-80 casing @ 5151'
- Cemented with 160 sx.

4-3/4" openhole
TD 5279'

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WV Department of Environmental Protection

01/13/2023

WR-35
Rev (5-01)DATE: 3/2/09
API #: 47-039-06118State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Sherry Maynor-Buchner Operator Well No.: 12440LOCATION: Elevation: 804 ft Quadrangle: Blue Creek
District: Elk County: Kanawha
Latitude: 8.129 Feet South of 39 Deg. 27 Min. 30 Sec.
Longitude 8.711 Feet West of 81 Deg. 25 Min. 00 Sec.Company: Columbia Gas Transmission, LLC

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 1700 MacCorkle Ave SE Charleston, WV 25325-1273	16" 42# Gr. B-35	33	32	none - sanded in
Agent: Paul Amick	11-3/4" 42# H-40	425	421	220 sks
Inspector: Terry Urban	8-5/8" 32# J-55	2170	2168	440 sks
Date Permit Issued: 4/7/08	5-1/2" 17# I-80	5165	5151	160 sks
Date Well Work Commenced: 12/3/08	2-3/8" 4.7# J-55	5127	5127	
Date Well Work Completed: 2/12/09				
Verbal Plugging:				
Date Permission granted on: not applicable				
Rotary X Cable Rig				
Total Depth (feet): 5290				
Fresh Water Depth (ft.): 100 (damp)				
Salt Water Depth (ft.): 944, 1060, 1770				
Is coal being mined in area (N/Y)? no				
Coal Depths (ft.): _____ ft				

OPEN FLOW DATA

Producing formation Oriskany Sand Pay zone depth (ft) 5225 - 28
Gas: Initial open flow 100 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 400 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 30 Days
Static rock Pressure 1400 psig (surface pressure) after 72+ HoursSecond Producing formation not applicable

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: James E. Amos
By: James E. Amos - Senior Storage Engineer - Columbia Gas Transmission, LLC
Date: 3/2/09RECEIVED
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WV Department of
Environmental Protection

01/13/2023

4703906118P

Coco C well 12440

Well drilled to Oriskany Sandstone for underground natural gas storage.

<u>Formation Record</u>	<u>Top (MD ft)</u>	<u>Comments</u>
Salt Sands	944	1/2" stream water @ 944 ft, 3" stream @ 1060 ft
Little Lime	1504	
Big Lime	1559	
Weir	1805	
Sunbury Shale	2121	
Berea	not detected	
Marcellus	5057	
Onondaga	5084	
Oriskany	5225	gas, trace of oil
Helderberg	5245	
TD	5290	

Perforations: none
 Stimulation: 500 gals 20% HCl acid
 544 bbls gel
 212 MSCF N2
 22,100 lbs sand
 Break: 3472 psig
 Avg BH rate: 19 BPM
 ATP: 3800 psig
 ISIP: 4276 psig

Electric Logs Ran: 12/17/08 Density - CNL
 12/17/08 Laterolog

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01/13/2023

WW-4A
Revised 6-07

1) Date: 10.20.2022
2) Operator's Well Number
Coco C 12440

3) API Well No.: 47 - 039 - 06118

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Linda Hershberger</u>	Name <u>Not operated</u>
Address <u>240S Pinch Rd</u>	Address _____
<u>Elkview, WV 25071</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 1207</u>	Name _____
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>304-549-5915</u>	_____

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

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

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

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

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



Subscribed and sworn before me this 20 day of October, 2022
Daniel J. Eash Notary Public
 My Commission Expires June 14, 2023

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.

4703906118A

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



October 27, 2022

Linda Hershberger
240S Pinch Rd
Elkview, WV 25071

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WV Department of
Environmental Protection

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to plug and abandon an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Coco C 12440 (API 47-039-06118).

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

7020 3160 0000 3743 7867

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

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

ELKVIEW WV 25071

Certified Mail Fee	\$4.00	0112
Extra Services & Fees (check box, add fee as appropriate)	\$7.25	05
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	Postmark Here OCT 27 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	\$9.90	10/27/2022
Total Postage and Fees	\$17.15	

Sent To Linda Hershberger CC12440
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

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

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:
Linda Hershberger
240 S Pinch Rd
Elkview, WV 25071

2. Article Number (Transfer from service label)
7020 3160 0000 3743 7867

3. Service Type
 Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Registered Mail™
 Registered Mail Restricted Delivery
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 Linda L. Hershberger Agent Addressee

B. Received by (Printed Name)
Linda L. Hershberger

C. Date of Delivery
10/27/2022

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

9590 9402 7677 2122 2704 25

PS Form 3811, July 2020 PSN 7530-02-000-9052

www.tcenergy.com

WW-4B

47039061189

API No. 47-039-06118
Farm Name _____
Well No. Coco C 12440

Coal not operated

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

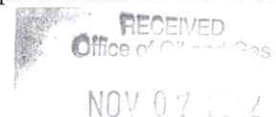
The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator _____/ owner _____/ lessee _____/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.



Date: _____

By: _____
Department of Environmental Protection

Its _____

01/13/2023

SURFACE OWNER WAIVER

Operator's Well
Number

Coco C 12440

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

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

Signature

Date 01/13/2023



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 926-0450

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

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4) ORDER NO. 2022-13
SECTION 14.1. AND LEGISLATIVE RULE)
35CSR8 SECTION 20.1,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well plugging.

FINDINGS OF FACT

1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
2. Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal wells.

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Environment
01/13/2023

4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well plugging subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

4703906118P

WW-9
(5/16)

API Number 47 - 039 - 06118
Operator's Well No. Coco C 12440

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

Operator Name Columbia Gas Transmission OP Code 307032

Watershed (HUC 10) Blue Creek Quadrangle Blue Creek, WV

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: fresh water, brine, cement returns, bentonite gel

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number 34-167-23862)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Mud Master 64054; Reserve Environmental Services (WMGR123SW005)
Appalachian Water Services (WMGR123SW001))

Will closed loop system be used? If so, describe: No

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

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

Additives to be used in drilling medium? N/A

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

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

-Landfill or offsite name/permit number? _____

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

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

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

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

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WV Department of Environmental Protection

Subscribed and sworn before me this 20 day of October, 2022
Daniel J. Eash Notary Public
My commission expires June 14, 2023



Proposed Revegetation Treatment: Acres Disturbed <1.0 Prevegetation pH 6 - 7

Lime 2 Tons/acre or to correct to pH 7 - 8

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

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

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

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

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Environmental Protection

Title: Inspect Oil & Gas

Date: 10-31-22

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): Blue Creek Quad: Blue Creek, WV
Farm Name: _____

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

- No fluids planned to be discharged.
- No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment.
- Accidental release from well fluids and spills from construction equipment are the only sources of contaminants to groundwater.
- All accumulated fluids to be hauled off site to UIC disposal facility.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

All construction and well servicing equipment will be monitored and inspected daily for leaks. Spill kits will be on site.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Blue Creek is at a distance of 0.09 miles N.

The Trail Kitchen (WV9908037) is the closest Well Head Protection Area at a distance of 10.4 miles SE from discharge area.

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

N/A

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

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

During routine tailgate meetings, groundwater protection will be a topic of discussion.

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

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

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

Signature: 

Date: 10.20.2022

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
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Legend

-  CC 12440 CWA
-  Coco C - 12440

WV DEP Reclamation Plan - Overview

Coco C well 12440 (API 47-039-016118)

- 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

Google Earth

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4703906118P

BLUE CREEK QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

(CLIO)



(KETTLE)

081° 25' 39.5540" W

038° 27' 27.9047" N

081° 27' 57.9981" W
038° 27' 27.9047" N



(BIG CHIMNEY)

(CLENDENIN)

(CHARLESTON EAST)

(MAMMOTH)

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

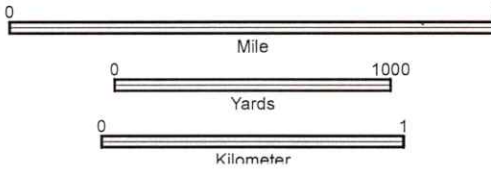
North American 1983 Datum (NAD83)

To place on the predicted North American
1927 move the projection lines 11M N and
14M E

Declination



(QUICK)
SCALE 1:24000

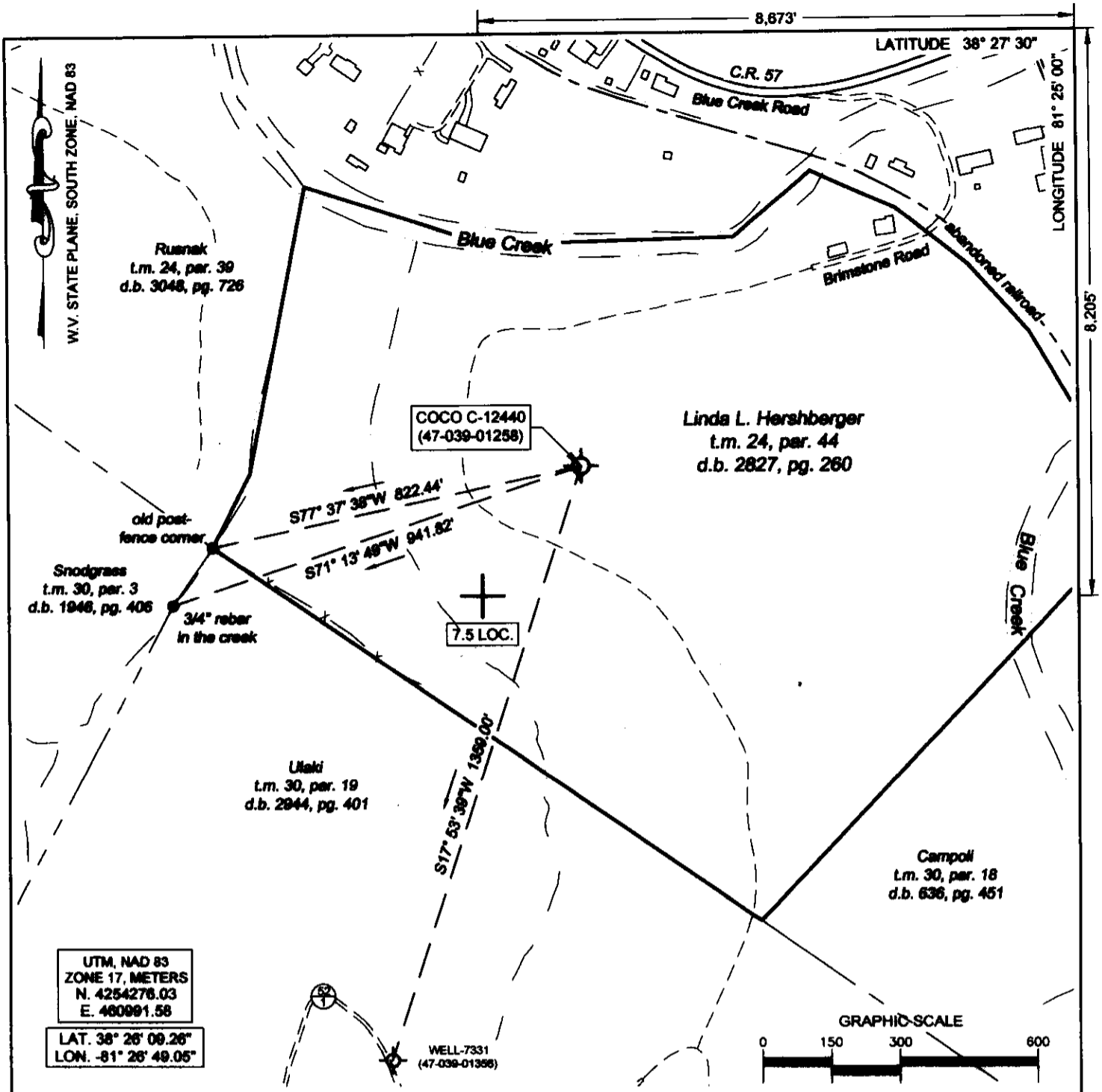


CONTOUR INTERVAL 20 FT

38081-D3-TM-024
BLUE CREEK, WV
JAN 1, 1977

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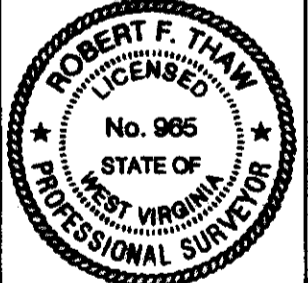


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. 2201-2345-001-002
DRAWING No. 2201-2345-001-002
SCALE 1"=300'
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. F. Thaw
ROBERT F. THAW PS #965



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



DATE OCTOBER 20 2022
OPERATOR'S WELL No. 12440
API WELL No. 47 039 - 06118P

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 807.9' WATER SHED BLUE CREEK
DISTRICT ELK COUNTY KANAWHA
QUADRANGLE BLUE CREEK, WV

SURFACE OWNER LINDA L. HERSHBERGER, ET AL ACREAGE 52-1/4 ACRES (DEED)
O&G ROYALTY OWNER EDWIN U. GRAY, JOHN GRAY, DAVID MARK CLINE, DOROTHY M. HEFNER, R.S. HEFNER, WILLIAM C. HENLEY, JAMES HENLEY
LEASE ACREAGE 56 ACRES LEASE NO. 1027204-000

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

TARGET FORMATION ORISKANY ESTIMATED DEPTH 5290
WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT MARIA MEDVEDEVA
ADDRESS PO BOX 1273, CHARLESTON, WV 25325-1273 ADDRESS 1700 MACCORMICK AVE, SE CHARLESTON, WV 25314

FORM N-6 (8-78)

47-039-06118 P

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



November 4th, 2022

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



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

Coco C 12440 (API 47-039-06118)

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

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

If you have questions, feel free to call.

Regards,

A handwritten signature in black ink, appearing to read "Maria Medvedeva".

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



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

Plugging permits issued 4703901552 03906116 03906118

1 message

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

Thu, Jan 12, 2023 at 9:14 AM


To: maria_medvedeva@tcenergy.com, Terry W Urban <terry.w.urban@wv.gov>, sallierobinson@kanawha.us


To whom it may concern, plugging permits have been issued for 4703901552 03906116 03906118.


James Kennedy


WVDEP OOG


6 attachments


 **4703901552.pdf**
6010K

 **4703906118.pdf**
5584K

 **IR-8 4703901552.pdf**
120K

 **4703906116.pdf**
5180K

 **IR-8 4703906118.pdf**
120K

 **IR-8 4703906116.pdf**
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