

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Monday, May 18, 2020 WELL WORK PERMIT Vertical / Re-Work

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

Re: Permit approval for COCO "A" 7226 47-039-01594-00-00

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: COCO "A" 7226

Farm Name: NEWHOUSE, DAVID & SHAP

U.S. WELL NUMBER: 47-039-01594-00-00

Vertical Re-Work Date Issued: 5/18/2020

I

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

CK# 051416 \$900 412/2020

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

1) Well Operato	r: Colun	nbia Gas	Transmission, LLC	307032	Kanawha	Elk	Blue Creek, WV
				Operator ID	County	District	Quadrangle
2) Operator's W	ell Numb	er: Coco	A 7226		3) Elevation:	1050.8'	
4) Well Type: (a) Oil	or Ga	as X				
(b) If Gas:	Produ	iction/ Unde	erground Sto	rage X	_	
		Deep	o <u>X</u> / Sh	nallow			
5) Proposed Target Formation(s): Oriskany Proposed Target Depth: 5334' 6) Proposed Total Depth: Feet Formation at Proposed Total Depth: Oriskany 7) Approximate fresh water strata depths: None reported by driller in 1953. 8) Approximate salt water depths: 1000'-1003'. Hole full of water from 1075'-1080' as reported by the driller in 1953.							
9) Approximate	coal sea	m depths	s: <u>305'-307';</u> 414'-4	17'.			
			al, Karst, other): ^I		ov driller in 1953		
11) Does land c	ontain co	al seam	s tributary to activ	/e mine? N	0.		
			nd fracturing metho	•			,
			API wellhead. Perfor	m a coiled tubin	g cleanout using	foamed treate	ed fresh water
and nitrogen. Acidi:	ze well with	n 1000 ga	IS HCI.	$\overline{}$	Luy Dl	hlc-	17
40)					,	4110	/
13) TYPE SI	PECIFIC		SING AND TUB	FOOTAGE	<u>am</u> INTERVALS	CEME	NT
	Size	Grade		For Drilling	Left in Well	Fill -up (Cu.	
Conductor	13-3/8"	<u>Olddo</u>	Wolght por it	1598'	0'	N/A	
	10-3/4"	H-40	26				
Fresh Water Coal	10-3/4	П-40	36	1668'	1668'	284 s	X
Intermediate							
moningulate							
Production	5-1/2"	J-55	15.5	5238'	5238'	1086	SX.
Tubing	2-3/8"	J-55	4.6		5229'		
Liners							RECEIVED
Packers: Kind	: N/A				-		RECHIVED Office of Oil and Gas
Sizes							APR 2 1 2020
Dept	hs Set _					E	W Department of

11-Mar-99 API # 47- 39-01594 F

State of West Virginia Division of Environmental Protection Section of Oil and Gas Well Operator's Report of Well Work

Farm name: NEWHOUSE, DAVID & SHARON Operator Well No.: COCO "A" 7226

LOCATION: Elevation: 1,053.00 Quadrangle: BLUE CREEK

> District: ELK County: KANAWHA

Latitude: 3600 Feet South of 38 Deg. 25Min. 0 Sec. Longitude 7050 Feet West of 81 Deg. 25 Min. 0 Sec.

Company: COLUMBIA GAS TRANSMISSION P. O. BOX 1273 Casing Used in Left Cement CHARLESTON, WV 25325-1273 33 Fill Up Tubing Drilling in Well Cu. Ft.

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY Permit Issued: 03/12/99 Well work Commenced: 05-03-99
Well work Completed: 05-20-99 Well work Commenced: Verbal Plugging Permission granted on: Rotary Cable F
Total Depth (feet) 5355'
Fresh water depths (ft) Not Reported Rig Salt water depths (ft)

Size 14" 20' 10-3/4", ³⁶ 1b 1668' 5-1/2", 15.5 1b 52381 1086 sx 2-3/8", 4.6 1b _5237**'**_

1000', 1075'

Is coal being mined in area (Y/N)? No Coal Depths (ft): Not Reported

OPEN FLOW DATA * Storage well - Rates and pressures variable

Producing formation Oriskany Pay zone depth (ft) 5	20/1 =
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A	$\frac{334' - 5355'}{Bbl/d}$
Time Open flow N/A MCF/G Final Open flow	Bbl/d
Time of open flow botwoon initial	
Time of open flow between initial and final tests N/A	Hours
Static rock Pressure N/A psig (surface pressure) after N/A	Hours
Second producing formation Pay zone depth (ft)	
Gas: Initial open flow MCF/d Oil: Initial open flow	D1-1/1
Final coor flow	Bbl/d
Final open flow MCF/d Final open flow	Bbl/d
Time of open flow between initial and final tests	Hours
Static rock Pressure psig (surface pressure) after	
Static rock Pressurepsig (surface pressure) after	Hours

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.

For:	COLUMB TA CAS THE PARTY COLOR	_
FOI:	COLUMBIA GAS THANSMISSION CORP. By: Paul Amick	
	Date: 07/09/99	

mailed to 1 Stevens 7/14/99

KA

THE STREET WAS TO SEE THE STREET ALCONOMIC CONTRACTOR

SERIAL-WELLINO MAP SQUARE 72-63 CASING AND TUBING RECORD OF WELL NO COMPANY OF the TEST SEFORE SHOT WEIGHT 23 /10 of Water in / 24 -inch in District /10 of Merc. in inch Hene Kantana County Volume 1,929,000 1583 Scott Market 121 TEST AFTER SHOT **1** 753 Field: /10 of Water in inch 15.50 5293 Rig Completed 19 /10 of Merc in inch 2-3/8" 5344 Volume 3,858,000 Ca. ft. Drilling Commenced 10/21/2019 Hours Atter Shot Drilling Completed 19 19

Drilling to cost 19 per foot Rock Pressure 4 Date Shot 19/34 Contractor is: Re Be Addition Size of Torpedo 20 500 Dis. Oil Flowed bbis 1st 24 hrs.
Oil Pumped bbis 1st 24 hrs. SHUT IN TOTAL CONTRACTOR Date 4/19/54 2 in. Driller's Name Den C. Marrien The same of the sa Size of Packer Form Well abandoned and in the Kind of Packer____ 1st. Perf. Set____ Elevation: 2nd Peri. Set____from DRILLER'S RECORD PORMATION . TOP BOTTOM THICKNESS Surface 15 Rue State 39 49 39 Slave 49 59 Sand 59 85 Slate 85 105 105 Sand 165 Slate and Shells 165 205 Sand 205 250 Slate and Shells 250 265 Sand 265 305 Coal 305 307 Slate 307 317 Line 317 327 Slate 327 414 Coal

414

417

Sand

417

460

ERIAL WELL NO.	1957.47 P	4	HOME NO.	87/403 Oct.	<u> </u>	MAP SQUARE
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Slate		1470	1485	1		
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Monte State		1505	1550			
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Big Lime		1669	1794			///
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Slate and Shells	3	1854	1860			
Wier Sand		1860	2050			
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Brown Shale	0 10	3991	4058			
Slate and Shell	8	4058	4850		•	
Brown Shale		4850	5110			
Black Shale	9	5110	5135			
Grey Shale		5135	51.63			
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WW-2A (Rev. 6-14)

1). Date: 3/16/2020

2.) Operator's Well Number Coco A 7226

State County

County Permit

3.) API Well No.:

47-

039 - 01594

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

4)	Surface Owr	ner(s) to be served:	5) (a) Coal Ope	rator
	(a) Name	David & Sharon Newhouse	Name	Not operated.
	Address	P.O. Box 732	Address	
		Pinch. WV 25156		
	(b) Name		(b) Coal Ov	vner(s) with Declaration
	Address		Name	Barbara F. Legg
			Address	3447 Norman Drive
			_	Charleston, WV 25306
	(c) Name		Name	Charleston, WV 20000
	Address		Address	
	, , , , , , , , , , , , , , , , , , , ,			Office of Oil and Go
6)	Inspector	Terry Urban	(c) Coal Le	ssee with Declaration
٠,	Address	P.O. Box 1207	Name	APR 2 1 2020
	71441000	Clendenin, WV 25045	Address	
	Telephone	304-549-5915	Address	Environmental Profection
	relephone		AED ABOVE TA	VE NOTICE THAT
	Included is the	TO THE PERSONS NAM	Opptroat or control	cts by which I hold the right to extract oil and gas
OR		e lease of leases of other continuing	Contract of Contrac	cts by which i hold the right to extract oil and gas
х Х		e information required by Chapter 22	Article 6 Section	8(d) of the Code of West Virginia (see page 2)
	I certify th	nat as required under Chapter 22-6	of the West Virgin	nia Code I have served copies of this notice and
apı	olication, a loca	ition plat, and accompanying docume	nts pages 1 through	gh on the above named parties by:
٠.	,	Personal Service (Affidavit attac	hed)	gir on the above hamed parties by.
	X	Certified Mail (Postmarked posta		1)
		Publication (Notice of Publication		,
	I have rea	ad and understand Chapter 22-6 and		agree to the terms and conditions of any permit
iss	ued under this	application.		
	I certify u	nder penalty of law that I have perso	onally examined a	and am familiar with the information submitted on
this	application to	m and all attachments, and that bas	sed on my inquiry	of those individuals immediately responsible for
ODI	aining the infor	mation, I believe that the information	is true, accurate a	and complete.
imr	orisonment.	e triat triere are significant penalties	for submitting rais	se information, including the possibility of fine and
	moorimont.	Well Operator	Columbia Gas	Transmission, LLC
			James Amos	Transmission, LLC
				- Well Engineering & Technology
			48 Columbia (
			Sandyville, W	
		Telephone:	304-483-0073	Jam Cin
		Email:	iames amos@	Otceneray.com
Sul	oscribed and sv	worn before me this 14th day of	agail 2	020
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B.4.	0	sinda & me chung		Notary Fusion Official SEAL
-	Commission E		9-19-2022	STATE OF WEST VICE S
	and Gas Privacy N			MCCLUNG (
The	Office of Oil and	Gas processes your personal information.	such as name, addre	ss and phone number as a definition of a work and duties
You	r personal intorm	ation may be disclosed to other State agen	cies or third parties i	n the normal course of business or as needed to comply
with	statutory or regi	ulatory requirements, including Freedom of We any questions about our use of your ne	Intormation Act requesion of	uests. Our office will appropriately secure your personal lease contact DEP's Chief Privacy Officer at
dep	privacyofficer@w	v.gov	p	vermot wai o vinor i irracy vinoci at

WW-2A	Surface	Waiver
(4/16)		

SURFACE OWNER WAIVER

County	039	Operator	Columbia Gas Trans LLC
		Operator well number	Coco A 7226

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	ru Lr
Charleston, WV 25304	ᅜ
(304) 926-0450	r.
Time Limits and methods for filing comments.	The law require
operator files his Application. You have FIFTEEN	(15) DAYS afte in
be filed in person or received in the mail by the Ch	ief's office by t
be sure of the date. Check with your postmaster to	ensure adequa
be sure of the date. Check with your postmaster to If you have been contacted by the well operator and	d you have sign 🛱
work described in these materials, then the permit	may be issued : 🖽
Comments must be in writing. Your com	ments must inc

operator's name and well number and the approximate location of

The Chief has the power to deny or condition a well work i

- The proposed well work will constitute a hazard to the r-
- The soil erosion and sediment control plan is not adec
- 3) Damage would occur to publicly owned lands or resour
- The proposed well work fails to protect fresh water so: 4)
- The applicant has committed a substantial violation of a of the rules promulgated under Chapter 22, and has failed to abate or seek review or the violation.

CERTIFIED MAIL® REC	EIPT
Certified Mail Fee \$	e at www.usps.com®. Postmark Here
Street and Apt. No. or PO Box No. DO Box 732 City, State 215-48 PINCH W 25156	

WV Department of Environmental Protection

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 PERSO	N	FOR EXECUTION BY A CORPORATION, ETC.			
Signature	Date	Company Name By	Columbia G	as Transmission, L er - Well Eng & Tec	
		Its	James Amo	os	Date
Print Name			Signature	Office of Oil and Gas APR 2 1 2020	Date

* coal not operated

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Kanawha Operator Columbia Gas Transmission, LLC Op	erator's Well Numbe	Coco A 7226
INSTRUCTIONS TO COAL	OPERATOR, OWNE	ER, OR LESSEE
To the coal operator, owner, or lessee any objection you wish to make or are require with the Chief of the Office of Oil and Gas wit by the Office. Mail objections to:	d to make by WV Co	de 22-6-15, 16 or 17, must be filed
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654		
	WAIVER	
The undersigned coal operator/ location has examined this proposed well local location, the well location has been added to t work proposed to be done at this location, pro- requirements of the West Virginia Code and the	tion. If a mine map e he mine map. The u vided, the well operat	exists which covers the area of well indersigned has no objection to the for has complied with all applicable
FOR EXECUTION BY A NATURAL PERSON	FOR EXE	ECUTION BY A CORPORATION, ETC.
Date	Company Name	
Signature	By Its	Date
	Sia	natura

RECEIVED
Office of Oil and Gas

APR 2 1 2020

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

Blue Creek Oil and Gas Company

Ohio Fuel Company

Lease No. 1027461-800

Bk. 171 / Pg. 408

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

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

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

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

Well Operator:

By:Its:

James Amos

Columbia Gas Transmission, LLC

Team Leader Well Engineering & Technology

RECEIVED Office of Oil and Gas

APR 2 1 2020

WW-2B1
(5-12)

Well	No.	Coco A 7226	
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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 Labora Sampling Conti		
Well Operator Address	Not applicable - existing underground natural gas storage well.	
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.

HECEIVED
Office of Oil and Gas

APR 2 1 2020

WW-9 (5/16)

API Number 47	_ 039	_ 01594	
Operator's Well 1	No. Coco	A 7226	

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)_Lower Three Mile Fork of Blue Creek	Quadrangle Blue Creek, WV
Do you anticipate using more than 5,000 bbls of water to complete the Will a pit be used? Yes No No	ne proposed well work? Yes No V
If so, please describe anticipated pit waste.	
Will a synthetic liner be used in the pit? Yes No	If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a co Underground Injection (UIC Permit Num Reuse (at API Number Off Site Diamond (Symphyform WW) 0 for	nber_34-119-28776, 34-167-23862)
Off Site Disposal (Supply form WW-9 for Other (Explain Appalachian Water Services	r disposariocation) s, Masontown, PA (permit 2608201)
Will closed loop systembe used? If so, describe: Yes - steel piping of	connecting wellhead and tank(s).
Drilling medium anticipated for this well (vertical and horizontal)?	Air, freshwater, oil based, etc. N/A - No drilling planned.
-If oil based, what type? Synthetic, petroleum, etc	
Additives to be used in drilling medium? No drilling planned; fresh water, poly	rmer, starch, LCM, surfactant, HCl acid, iron control (for clean-out and stimulation)
Drill cuttings disposal method? Leave in pit, landfill, removed offsit	e, etc. N/A - No drilling planned.
-If left in pit and plan to solidify what medium will be used	? (cement, lime, sawdust)
-Landfill or offsite name/permit number? If needed: Rumpke	3eech Hollow Landfill - Wellston, OH
Permittee shall provide written notice to the Office of Oil and Gas of West Virginia solid waste facility. The notice shall be provided within where it was properly disposed.	any load of drill cuttings or associated waste rejected at any n 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of the West Virginia provisions of the permit are enforceable by law. Violations of any teror regulation can lead to enforcement action.	nined and am familiar with the information submitted on this quiry of those individuals immediately responsible for obtaining d complete. I am aware that there are significant penalties for
Company Official Signature	
Company Official (Typed Name) James Amos	RECEIVED OF COMMENT OF
Company Official Title Team Leader - Well Engineering & Technolog	
	APR 2 1 2020
Subscribed and sworn before me this 14th day of Cap	, 20_20 WV Department of Environmental Protection
My commission expires 9-19-2022	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA LINDA L. MCCLUNG 413 FITZHUGH STREET RAVENSWOOD, WV 26164 My Commission Expires Septembor 19, 2022

Title: Inspect allelips

Field Reviewed?

Hay or Straw 6000 Birdsfoot Trefoil (empire) 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 dim (L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet.			Operator's Well No. Coco A 72	26
Fertilizer type 10-10-10 Fertilizer amount 600 lbs/acre Mulch 2 Tons/acre Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre Annual Rye 40 Orchard Grass and/or Tall Fescue 29 Hay or Straw 6000 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 appliced, provide water volume, include dimensions (L, W, D) of the pit, and dim (L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet.	Proposed Revegetation Treatm	nent: Acres Disturbed 0.2	Prevegetation pH 6.5	
Fertilizer amount 600 lbs/acre Mulch 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 Hay or Straw 6000 Birdsfoot Trefoil (empire)	Lime 2	Tons/acre or to correct to pH	7	
Seed Mixtures Temporary Permanent Seed Type Ibs/acre Seed Type Ibs/acre Seed Type Ibs/acre Annual Rye 40 Orchard Grass and/or Tall Fescue 29 Hay or Straw 6000 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 application area. Photocopied section of involved 7.5' topographic sheet.	Fertilizer type 10-10	0-10		
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Seed Type Ibs/acre Seed Type Ibs/acre Annual Rye 40 Orchard Grass and/or Tall Fescue 29 Hay or Straw 6000 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 dim (L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet.	Mulch_2	Tons/ac	re	
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	Maps(s) of road, location, pit a provided). If water from the pit (L, W), and area in acres, of the Photocopied section of involve Plan Approved by:	it will be land applied, provide water land application area. ed 7.5' topographic sheet.	ion (unless engineered plans including this info have er volume, include dimensions (L, W, D) of the pit, a	been nd dim
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Date: 4-17-20

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WW-9- GPP Rev. 5/16

	Page	l of 2
API Number 47	- 039	- 01594
Operator's Well N	No, Coco A 7	226

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

GROUNDWATER PROTEC	CTION PLAN
Operator Name: Columbia Gas Transmission, LLC	
Watershed (HUC 10): Lower Three Mile Fork of Blue Creek	Quad: Blue Creek, WV
Farm Name: Blue Creek Oil & Gas Co.	
List the procedures used for the treatment and discharge of fluids. groundwater.	Include a list of all operations that could contaminate the
No fertilizer will be stored on site. Small quantities of site, but located within secondary containment.	f fuel, oil, and lubrications will be stored on
Spills from construction equipment and well treatment to groundwater.	nt fluids is the only source of contaminate
2. Describe procedures and equipment used to protect groundwater qu	ality from the list of potential contaminant sources above.
All construction and well servicing equipment will be Fluid pumping well service equipment will have secon Spill kits will be on site.	
3. List the closest water body, distance to closest water body, and discharge area.	distance from closest Well Head Protection Area to the
Lower Threemile Fork - 0.10 mi. 15 mi. from WHPA (Ripling Waters Campground). Within ZPC (WVAWC Kanawha Valley Dist).	
Summarize all activities at your facility that are already regulated for	or groundwater protection.
N/A	

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

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WV Department of Emiliormental Protestion

WW-9- GPP Rev. 5/16

2 of 2 - 01594 Page API Number 47 - 039 Operator's Well No. Coco A 7226

N/A	
Provide a statement that no waste material will be used for deicing or fill material on the p	roperty.
No waste material will be used for deicing or fill material on the proper	ty.
Describe the groundwater protection instruction and training to be provided to the emp provide direction on how to prevent groundwater contamination.	loyees. Job procedures shall
During routine tailgate meetings groundwater protection will be a topic	of discussion.

vide provisions and frequency for inspections of all GPP elements and equipment.

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment. Construction and well servicing equipment will be monitored and inspected daily for leaks or spill.

Signature:

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APR 2 1 2020

From:

Carr, Brian A (DHHR)

uoiloginadieded NN Date:

Brad Nelson

[EXTERNAL] data request

This letter is in response to the informational request dated Ma

NOTE TO WOMEN Based on the Current Co.

Based on the Current Co. This letter is in response to the informational request dated March 17, 2020 concerning a

Based on the current information, we have found that the Gas Storage wells do not intersect with public water sources but intersect Protection Areas.

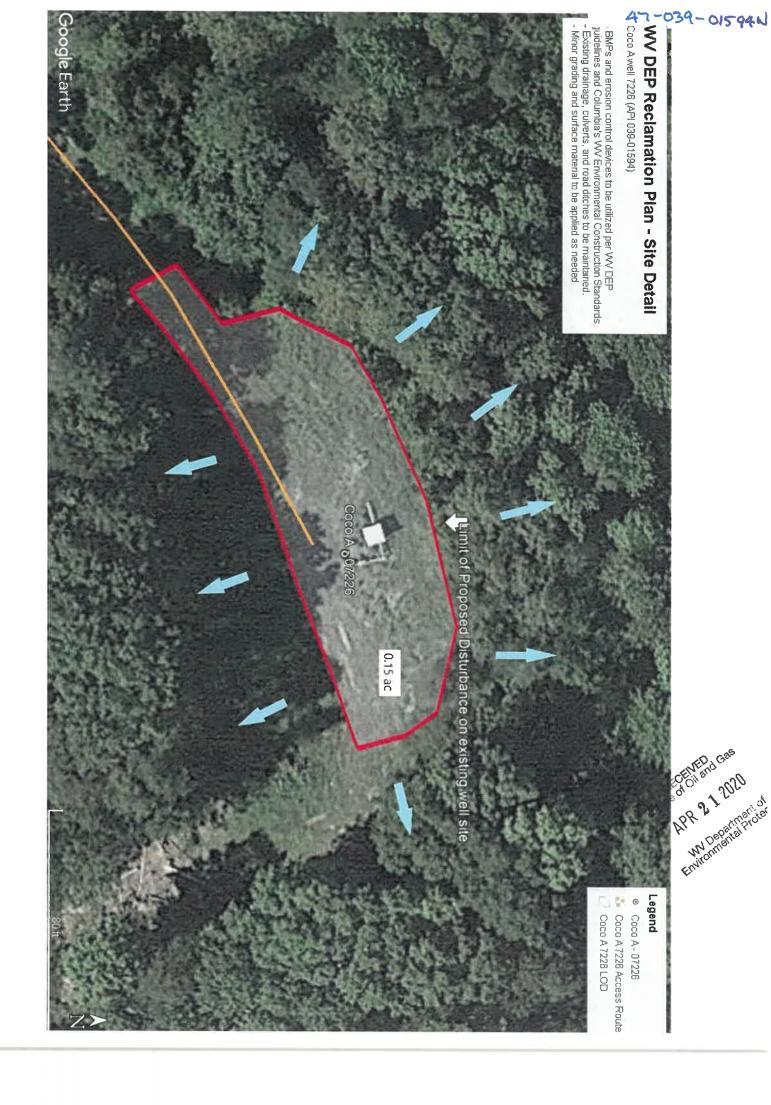
Attached are two tables showing the public water sources/ intakes and protection areas closest /intersect to the locations.

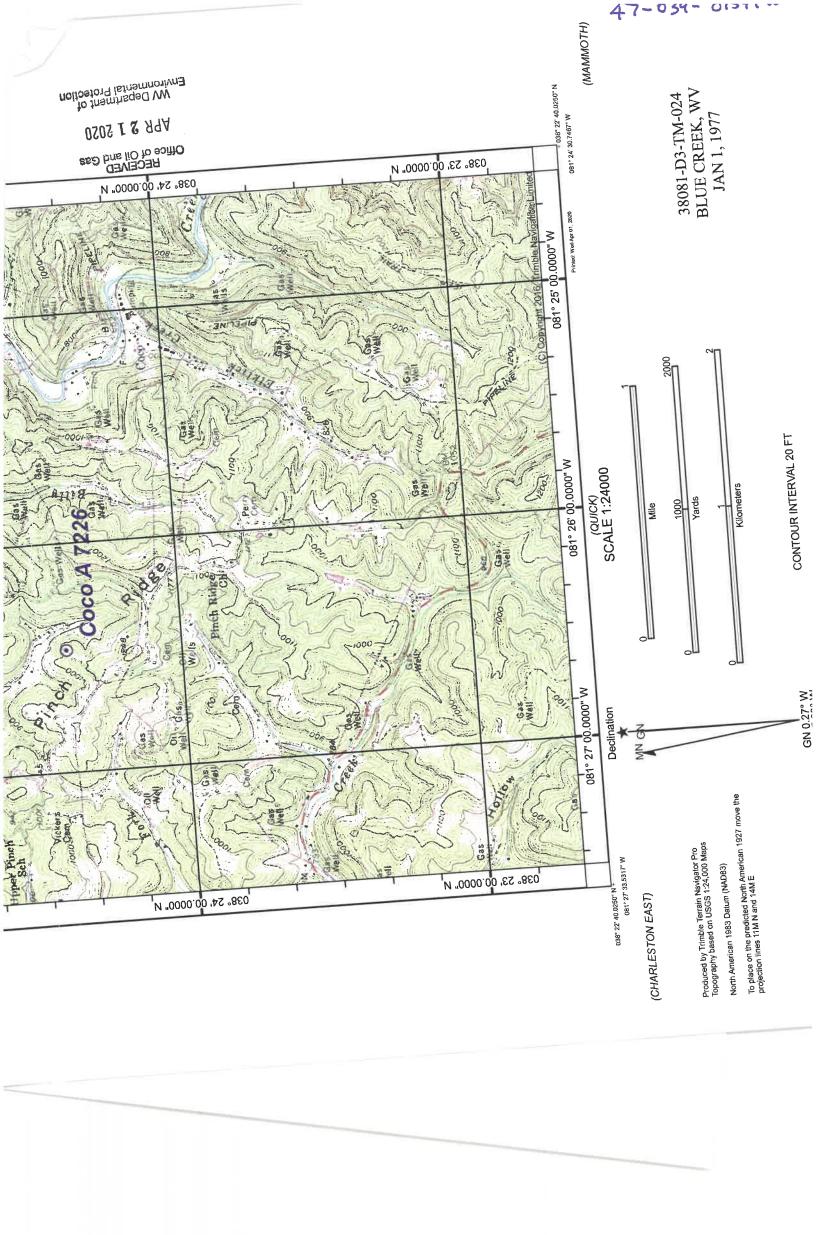
CLOSEST ACTIVE PUBLIC WATER				
Gas Storage Name	Distance	PWSID	Source	System Name
Coco A well 7226	11 miles	WV3302016	Surface Water (SW)	WVAWC KANAWHA VALLEY DIST
Ripley well 7344	6 miles	WV3301810	Ground Water (GW)	RAVENSWOOD MUNICIPAL WATER WORKS
Coco C well 7325	13 miles	WV3302016	Surface Water (SW)	WVAWC KANAWHA VALLEY DIST

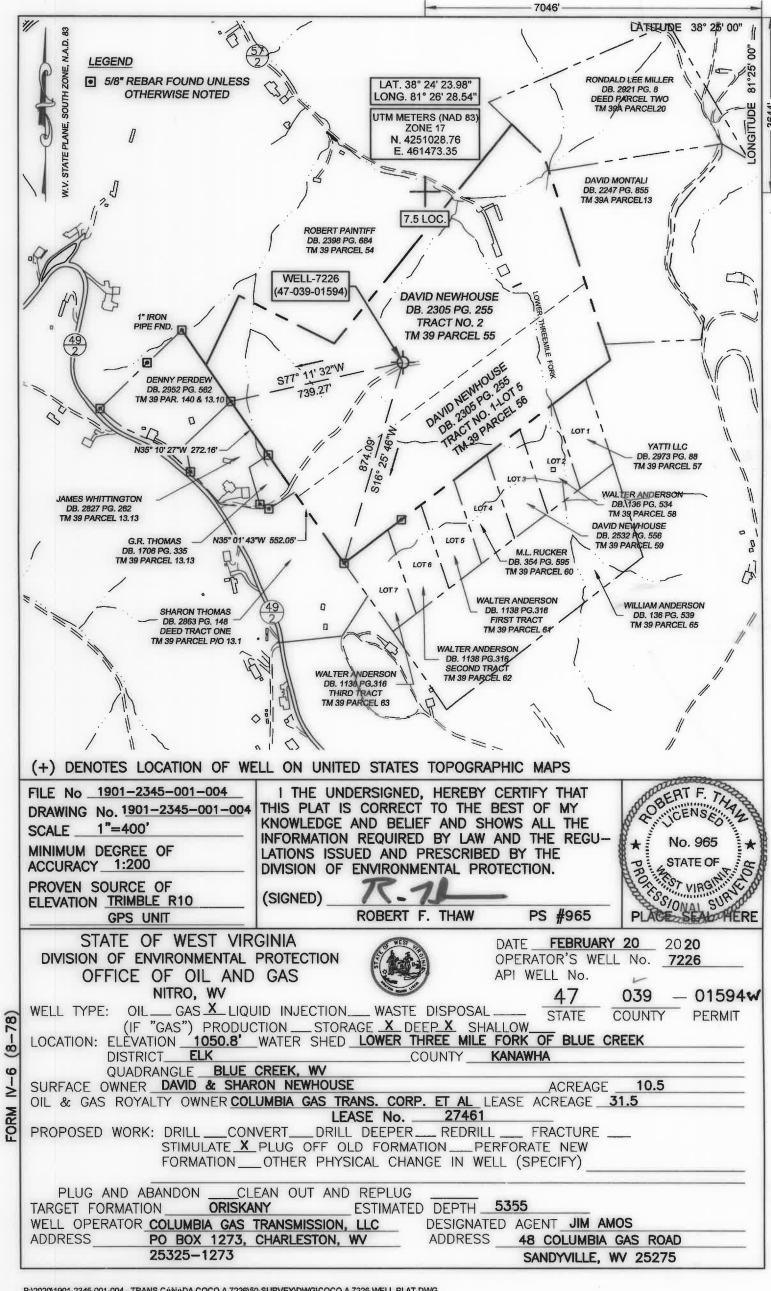
PROTECTION AREAS			
Gas Storage Name	Distance	PWSID	System Name
Coco A well 7226	15 miles from WHPA	WV9918017	RIPLING WATERS CAMPGROUND
COCO A WEII 7220	within ZPC	WV3302016	WVAWC KANAWHA VALLEY DIST
Ripley well 7344	5 miles from WHPA	WV3301810	RAVENSWOOD MUNICIPAL WATER WORKS
Tupley Well 7344	4 miles from ZPC	WV3301811	RIPLEY CITY OF
Coco C well 7325	13 miles from WHPA	WV9918017	RIPLING WATERS CAMPGROUND
Coco C Well 7323	within ZPC	WV3302016	WVAWC KANAWHA VALLEY DIST

Brian A. Carr, P.G. | Program Manager Office of Environmental Health Services Source Water Assessment & Protection 350 Capitol Street, Room 313 Charleston, West Virginia 25301 Office 304.356.4298









WV DEP Office of Oil & Gas Permit Application Check-off

Well_	(OCO A 1226	
1.	Survey plat	
2.	Surface owner name & address	
3.	Site Reclamation Plan	
4.	Topo map	
5.	Copy of old State Completion Report	
6.	Wellhead Protection Area Assessment	
7.	Application package prepared	
8.	Approved by State Inspector	
9.	Signed & notarized	
10.	Water Well Testing Reqr'mts	□ N/A - EXISTING WELL
	Only required if drilling new well	
11.	Surface Owner Waiver	
	Provide copy of entire permit application to surface owner Include Copified Meil recommendation if well all	
12.	• Include Certified Mail return receipt if mailed Coal Operator Waiver	- N/A - COAL NOT OPERATED
	Only required if coal is currently mined/operated	RECEIVED
	Include Certified Mail return receipt if mailed	Office of Oil and Gas
13.	Coal Owner Waiver	□ N/A APR 2 1 2020
	Include Certified Mail return receipt if mailed	WV Department of Environmental Protection
14.	Sent to the State with Fee	(fee estimated @ \$ 900)
	Ensure mylar copy of survey plat included	
	Include certified mail receipt if Surface Owner Waiver maile	ed
15.	Emergency Evacuation Plan	
	Only required if "Deep Well"	



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

April 15, 2020

David & Sharon Newhouse P.O. Box 732 Pinch, WV 25156

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to work on an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Coco A 7226 7344 (API 47–039–01594).

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,

Jim Amos Team Leader

Well Engineering & Technology Columbia Gas Transmission, LLC

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APR 2 1 2020



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

April 15, 2020

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

Enclosed are well work permit applications for the following Columbia Gas Transmission existing storage wells:

Coco A 7226 (API 039-01594) Coco C 7325 (API 039-01575)

Please return permit to:

Columbia Gas Transmission 48 Columbia Gas Rd Sandyville, WV 25275 Attn: Jim Amos

If you have questions, feel free to call.

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APR 2 1 2020

WV Department of Environmental Protection

Regards,

Jim Amos Team Leader

Well Engineering & Technology Columbia Gas Transmission, LLC

Off: 304-373-2412 Mob: 304-483-0073 CHAPMY & UNITED