

#### 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 Earl Ray Tomblin , Governor Randy C. Huffman , Cabinet Secretary www.dep.wv.gov

Monday, September 12, 2016 WELL WORK PERMIT Vertical / Re-Work

COLUMBIA GAS TRANSMISSION, LLC P. O. BOX 1273

CHARLESTON, WV 253251273

Re:

Permit approval for GLADY 7468

47-075-00037-00-00

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

Operator's Well Number: GLADY 7468 Farm Name: U.S. FOREST SERVICE

U.S. WELL NUMBER: 47-075-00037-00-00

Vertical / Re-Work

Date Issued: 9/12/2016

Promoting a healthy environment.

### 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, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

MC,

 $4707500037 \omega$ 

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

1) Well Operato	r: Colum	nbia Gas	Transmission, LLC	307032	Pocahontas	Green Bank	Sinks of Gandy
				Operator ID	County	District	Quadrangle
2) Operator's W	/ell Numb	er: Glady	7468	<del></del>	3) Elevation:	3749	
4) Well Type: (a	ı) Oil	or Ga	s <u>X</u>				
(t	) If Gas:	Produ	ction/ Unde	rground Sto	rage X		
		Deep	<u>X</u> / Sha	allow	_		
6) Proposed To 7) Approximate	tal Depth fresh wa	: 6260 (existi ter strata	Oriskany  ng) Feet Fo  depths: 405 ft (per di	ormation at F	Proposed Targ	get Depth: 6	043 erberg
9) Approximate	coal sea	m depths	none reported by	driller in 1966			
10) Approximat	e void de	oths.(coa	al, Karst, other): <u>n</u>	one reported b	y driller in 1966		
							<del> </del>
11) Does land (	contain co	aı seam	s tributary to activ	e mine? <u>nd</u>		<u> </u>	
•	•		d fracturing method	•			
Clean well to TD watch			/- 300 bbls fresh water	er. Perform ac	id stimulation us	ing approximat	ely 8000 gals
			ans to remove, alter,	or install new	casing/tubing.		
13) TYPE S	PECIFIC		SING AND TUBI	FOOTAGE	<u>AWI</u> INTERVALS	CEME	<u>NT</u>
	Size	Grade		For Drilling	Left in Well	Fill -up (Cu.	Ft.)
Conductor	13.375	H-40	48	39	39	12 s	x
Fresh Water	9.625	H-40	32	1424	1424	530	
Coal						:	
Intermediate							
Production	7.0	J-55/N-80	23.0	6048	6048	267	
Tubing						F	regelveb <del>rof Oll</del> and Gas
Liners							
Packers: Kind	<b>1</b> :						JUL <b>2 7</b> 2016
Size	es:					14/1/	Department of
	ths Set					74.0	mental Protect 0/16/2016

Form 3160-5 (August 2007)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

**SUNDRY NOTICES AND REPORTS ON WELLS** Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals. FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

5. Lease Serial No. WVBLMA022923 6. If Indian, Allottee or Tribe Name

					I		
SUBMIT IN TRI	PLICATE - Other instruc	ctions on rev	erse side.		7. If Unit or CA/Agree WVES39982	ement, Name an	d/or No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☑ Oth	er: INJECTION				8. Well Name and No. 7468		
Name of Operator     COLUMBIA GAS TRANSMISS	Contact: SION LL <b>©</b> -Mail: jamos@nis	JAMES E AM source.com	os		9. API Well No. 47-075-00037-0	0-S1	
3a. Address 1700 MACCORKLE AVE SE CHARLESTON, WV 25325-1	273	3b. Phone No. Ph: 304-373 Fx: 304-373		)	10. Field and Pool, or GLADY	Exploratory	
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description	)			11. County or Parish,	and State	
Tract US-52 38.718370 N Lat, 79.741480 V	V Lon				POCAHONTAS	COUNTY, W	<b>~</b>
12. CHECK APPR	ROPRIATE BOX(ES) TO	) INDICATE	NATURE OF	NOTICE, R	EPORT, OR OTHE	R DATA	
TYPE OF SUBMISSION			ТҮРЕ О	F ACTION			
☑ Notice of Intent	Acidize	Deep	en	☐ Product	ion (Start/Resume)	□ Water Sl	ut-Off
_	☐ Alter Casing	☐ Frac	ure Treat	□ Reclam	ation	☐ Well Inte	grity
☐ Subsequent Report	□ Casing Repair	□ New	Construction	□ Recomp	olete	☐ Other	
☐ Final Abandonment Notice	□ Change Plans	Plug	and Abandon	□ Tempor	arily Abandon		
13. Describe Proposed or Completed Ope	☐ Convert to Injection	Plug		☐ Water I			
Attach the Bond under which the wor following completion of the involved testing has been completed. Final At determined that the site is ready for final Project to be performed betwee Duration: +/- 30 days  Procedure:  1. Perform coiled tubing clean 2. Perform acid treatment	operations. If the operation resondonment Notices shall be filinal inspection.)  een 8/1/16 - 11/1/16  out	sults in a multiple	completion or rec	ompletion in a ding reclamatio	new interval, a Form 316	IVED I and Gas 7 2016	d once has
14. I hereby certify that the foregoing is	Electronic Submission #	LS TRANSMIS\$	ION LLC. sent 1	to the Milwau	kee		
	nmitted to AFMSS for proc	essing by TRE		1 07/15/2016 ( 1 ENGINEE			
Name (Printed/Typed) JAMES E	AIVIUS		THE SENIC	IN LINGINE			
Signature (Electronic	Submission)		Date 07/15/	2016			
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE U	SE		
Approved By TREY MITCHELL _ Conditions of approval, if any, are attache certify that the applicant holds legal or eq which would entitle the applicant to conditions.	uitable title to those rights in th	s not warrant or e subject lease	TitlePETROL Office Milwau		EER	Date (	07/15/2016
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a	a crime for any pe s to any matter w	rson knowingly an	d willfully to m	ake to any department or	r agency of the U	Jnited
	ISED ** BI M REVISE				D ** BLM REVISE	D **	

# WVES 39982 Glady 7468 Columbia Gas Transmission, LLC July 15, 2016 Conditions of Approval

1. Subsequent sundry required within 2 weeks of completing the workover

**TAM 071516** 

RECEIVED
Office of Oil and Gas

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WV Department of Environmenta <mark>0.9/ปาติเสนิท</mark>า6

X	7	7	-	7	4	6	8	
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X77 7400	CASTING.		
	Size Weight	Point	
U. S. A. Dept. of Interior Tr. #52	13 3/8"	39' 0	Cemented with 12
Atlantic Seaboard Corporation		S	acks regular with
Green Bank District, Pocahontas County, W.Va.		3	3% CaClo
Map Square - 164-83	9 5/8"		Cemented with 430
Commenced - 6-10-66			cu. ft. "Litepoz"
Completed - 6-23-66			and 100 cu.ft.
Elevation - 3743.62' Gr.			regular with 3%
3760.62' RKB		C	CaCl <sub>2</sub>
	7" 23#	60481	Cemented with 200
		C	cu.ft. "Litepoz"
		ā	and 500 gals.
		1	atex
	2 3/8"	62521	

#### CONTRACTOR: Lohmann-Johnson

Surface	0	22	Water 405'
Sand	22	83	
Shale	83	445	Gas show 6199-62021
Sand	445	570	
Shale	570	1130	All gas test 3/10 W 4" 291 M when drilling
Sand	1130	1456	completed.
Shale	1456	2132	
Sand	2132	2300	
Shale & Sand	2300	3345	Test before acidized 3/10 W 4" 291 M
Shale	3345	5397	Acidized 6-28-66 with 12,000 gallons 28%
Tully Lime	5397	5422	Hcl, 4,000 gallons overflush water.
Marcellus Shale	5422	5797	Test after acidized 88# spring gauge 4"
Onondaga Lime	5797	5850	37,000 M
Chert	5850	6005	
Needmore Shale	6005	6043	
Oriskany Sand	6043	6245	FINAL OPEN FLOW - 37,000 M - Oriskany
Helderberg	6245		R.P. 1530#
Total Depth	62	160	

Shut in 6-30-66

Permit No. - Poca.-37

RECEIVED Office of Oil and Gas

JUL 2 7 2016

WV Department of Freedom Protection

WR-35 Rev. 8/23/13

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

API 47 075 00037 County Po	ocahontas	District Green Bank				
Quad Sinks of Gandy Pad Name		Field/Pool Name Glady Storage				
Farm name U.S. Forest Service		Well Number 7468				
Operator (as registered with the OOG) Columbia Ga	as Transmission, LLC					
Address 1700 MacCorkle Ave SE Cit	y Charleston	State VVV	_ Zip 25325-1273			
Top hole Northing  Landing Point of Curve Northing	Ea	nd deviation survey sting sting sting				
Elevation (ft) 3749 GL Type of	Well □New <b>2</b> Existing	Type of Report □Int	terim =Final			
Permit Type   Deviated   Horizontal   H	Iorizontal 6A @ Vertical	Depth Type 🗈	Deep   Shallow			
Type of Operation □ Convert □ Deepen □ Dril	□ Plug Back □ Red	rilling 🗆 Rework 🖻 S	timulate			
Well Type □ Brine Disposal □ CBM □ Gas □ Oil	□ Secondary Recovery □	Solution Mining 🙃 Storage	d Other			
Type of Completion Single Multiple Fluids  Drilled with Cable Rotary  Drilling Media Surface hole Air Mud Free  Production hole Air Mud Fresh Water (  Mud Type(s) and Additive(s)	sh Water Intermediate					
Date permit issued6/2/15 Date drilling						
Date completion activities began						
Verbal plugging (Y/N) Date permission	granted	Granted by				
Please note: Operator is required to submit a plugging	application within 5 days of	verbal permission to plug				
Freshwater depth(s) ft	Open mine(s) (Y/N)	depths				
Salt water depth(s) ft	Void(s) encountered	(YN) depts CEIVED				
Coal depth(s) ft	Cavern(s) encounter	ed atticgepte Oil and	Gas			
Is coal being mined in area (Y/N)		JUL 9 7 1015	Reviewed by:			

WV Department of Environmental Protection 16/2016

WR-35 Rev. 8/23/13								Page of
API 47- 075	_ 00037	Farm nan	ue U.S. Fore	est Service	)	Well no	746 umber	8
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt ft		sket oth(s)	Did cement circulate (Y N)  * Provide details below*
Conductor	·							
Surface								
Coal								
Intermediate 1								
Intermediate 2								
Intermediate 3								
Production								
Tubing								
Packer type and de	epth set					· · · · · · ·		
CEMENT	Class/Type	vas altered and no addition	nal casing installed		i well work.	Volume	Cemen	ut WOC
DATA	of Cement	of Sacks	wt (pp		`sks)	(Iff 37)	Top (MI	
Conductor								
Surface						·		
Coal								
Intermediate 1								
Intermediate 2								
Intermediate 3								
Production								
Tubing								
Plug back prod	tion penetrated _ cedure			Plug back				
Check all wire		□ caliper □ neutron	☐ density ☐ resistivity	□ deviat	ed/directio a ray	nal ⊐ indu ⊐ tem	action perature	□sonic
Well cored $\Box$	Yes B No	□ Convention	al □ Sidev	vall	We	re cuttings co	ollected 🗆	Yes □ No
DESCRIBE TI	HE CENTRALI	ZER PLACEMEN	T USED FO	R EACH C	ASING ST	RING		
			<del> </del>					
				·				
WAS WELL C	COMPLETED A	S SHOT HOLE	□ Yes ■	No DI	ETAILS _			
WAS WELL C	COMPLETED C	PEN HOLE?	Yes 🗆 N	o DET	AILS			
WERE TRACE	ERS USED =	Yes B No	TYPE OF T	RACER(S)	USED			

7468\_\_\_\_\_\_Well number\_\_\_\_

WR-35 Rev. 8/23/13 Page \_\_\_ of \_\_\_

	PERFORATION RECORD									
Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)					
					•					

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

API 47- 075 - 00037 Farm name U.S. Forest Service

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	9/10/15	3	25	N/A	N/A	0	110	270 acid (bbls)

Please insert additional pages as applicable.

WR-35 Page \_\_\_ of \_\_\_ Rev. 8/23/13 API 47- 075 - 00037 Farm name\_U.S. Forest Service Well number\_7468 PRODUCING FORMATION(S) **DEPTHS** Oriskany (storage) 6043 MD TVD Please insert additional pages as applicable. **GAS TEST** □ Build up □ Drawdown □ Open Flow OIL TEST = Flow = Pump Surface 1600 Bottom Hole psi SHUT-IN PRESSURE psi DURATION OF TEST hrs **OPEN FLOW** Gas NGL Water GAS MEASURED BY 26,000 bpd bpd \_\_\_\_\_ bpd LITHOLOGY/ TOP **BOTTOM** TOP **BOTTOM** DEPTH IN FT DESCRIBE ROCK TYPE AND RECORD QUANTITY AND **FORMATION** DEPTH IN FT DEPTH IN FT DEPTH IN FT TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H<sub>2</sub>S, ETC) NAME TVD TVD MD MD 0 Please insert additional pages as applicable. Drilling Contractor City State Zip \_\_\_\_\_ Address \_\_\_\_\_ Logging Company State Zip City Address \_\_\_\_\_ Cementing Company \_\_\_\_\_ State Zip \_\_\_\_\_ City Address Stimulating Company C&J Energy Services \_\_\_\_ State VA Zip \_\_\_\_ Address 580 Hawthorn Dr Norton City Please insert additional pages as applicable. Telephone 304-483-0073 Completed by Jim Amos Title Senior Engineer Date 9/17/15 Signature

Subjected of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

Glady 7468

Date well work commenced: 7/16/15 Date well work completed: 9/14/15

Work Performed

Killed well. Pulled tubing. Ran pipe inspection and cement bond logs. Installed new wellhead. Performed

coil tubing clean-out and acid stimulation.



#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

June 02, 2015

#### WELL WORK PERMIT Re-Work

This permit. API Well Number: 47-7500037, issued to COLUMBIA GAS TRANSMISSION. LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

Operator's Well No: GLADY 7468

Farm Name: U.S. FOREST SERVICE

API Well Number: 47-7500037 Permit Type: Re-Work

Date Issued: 06/02 2015

Operator's Well Number Glady 7468

# 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
US Dept of Interior	Columbia Gas Transmission, LLC	Storage Lease 1090700-000	not recorded

### 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 aut hority before the affected activity is initiated.

Well Operator: By:Its:

Jul 2 7 2016

WV Departmental Protection

WW-2B1	
(5-12)	

Well i	No. Glady	7468	

### 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 Labor Sampling Cont	· · · · · · · · · · · · · · · · · · ·	
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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Office of Oil and Gas

JUL 2 7 2016

WV Department of Environmental Police

WW-2	2A
(Rev.	6-14)

1). Date: <u>7/15/16</u>

2.) Operator's Well Number

Glady 7468

State

County 075 Permit

3.) API Well No.:

47-

- <u>00037</u>

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

	NOTICE AND APPLICATI	ON FOR A W	IELL WORK F	<u> PERIVII I</u>
4) Surface O	wner(s) to be served:	5) (a) Coal Ope	erator	
(a) Name	US Dept of Interior (BLM)	Name	natoi	
Address	626 East Wisconsin Ave Suits	•		
	Milwaukee, WI 53202-4617			
(b) Name		(b) Coal O	wner(s) with De	claration
Address		Name	not operated	I
		Address		
(c) Name		Name		
Address		Address		
6) Inspector	Danny Mullins	(a) Cool I o	essee with Decla	protion
Address	220 Jack Acres Rd	Name		
Address	Buckhannon, WV 26201	Address		
Telephone	304-932-6844	71001033		
Тоторттотто	TO THE PERSONS NAM	ED ABOVE TA	AKE NOTICE T	HAT:
Included is	the lease or leases or other continuing co			
<u>OR</u>	-			
	the information required by Chapter 22,			
	that as required under Chapter 22-6 of cation plat, and accompanying documen			
application, a lo	Personal Service (Affidavit attach		ign on the at	ove named parties by.
_	Certified Mail (Postmarked postal		d)	
$\overline{\Sigma}$	Publication (Notice of Publication			
	ead and understand Chapter 22-6 and 3	35 CSR 4, and I	agree to the te	rms and conditions of any permit
issued under thi		aallu ovaasiaad .	and on familiar	with the information authoritied on
	under penalty of law that I have persor form and all attachments, and that base			
	formation, I believe that the information is			adio illiniodidicity respections to
l am av	vare that there are significant penalties for			cluding the possibility of fine and
imprisonment.	NA/all Occuptor	0-l	a Tua Carabaia.	- 110 - 0
	vveii Operator 1	James E. Am	s Transmission	m Clim
		Senior Engine		
	Address:	48 Columbia	Gas/Rd	
	<u>:</u>	Sandvville, W	N <u>/2527</u> 5	
		<u>304-373-2412</u>		
Culpanibad and		<u>iamos@cpd.c</u>		Columbia Cas Transmission
Subscribed and	sworn before me this / graded day of	July,	2020	Columbia Gas Transmission
Mary	Marie Cles denin	<i>) (</i>	Notary F	ublic ffige (Notary public From
My Commission	Expires 3/22/2020			MARY MARIE CLENDENIN
Oil and Gas Privac	y Notice / /			249 Conumbia Pinesina Common Common Pinesina Common Pinesina Common Pinesina Common Common Pinesina Common Common Pinesina Common Common Pinesina Pine
The Office of Oil ar	nd Gas processes your personal information, so	uch as name, addre	ess and phone num	ber, as a part of our Celytheras Adulties to
Your personal info	rmation may be disclosed to other State agenci	ies or third parties	in the normal cours	e of business of as necession was

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Well 7468 tmitchell to: jamos Cc: jwood

07/15/2016 08:50 AM

History:

This message has been replied to.

2 attachments



EC344767.pdf

WVES 39982 7468 workover 071516.docx

The sundry for Acidize you submitted has been approved by the BLM. Your original Electronic Commerce (EC) transmission was assigned ID 344767. Please be sure to open and save all attachments to this message, since they contain important information.

RECEIVED
Office of Oil and Gas

AUG. 0 7 2016

WV Department of Environmenta

WW-9 (5/16)

API Number 47 -	075 _	00037
Operator's Well No		

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Watershed (HUC 10) Snorting Lick Run of the Greenbrier River Quadrangle Sinks of Gandy  Do you anticipate using more than 5,000 bibs of water to complete the proposed well work? Yes No	Operator Name Columbia Gas Transmission, LLC OP Code 307032
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No	
Will a pit be used? Yes No	
If so, please describe anticipated pit waste:  Will a synthetic liner be used in the pit? Yes No If so, what mt.?  Proposed Disposal Method For Treated Pit Wastes:  Land Application (f selected provide a completed form WW-9-CPP)  Land Application (f selected provide a completed form WW-9-CPP)  Land Application (UIC Permit Number_34-009-23821, 34-009-23824, 34-119-28776)  Reuse (at API Number	
Will a synthetic liner be used in the pit? Yes No If so, what ml.?  Proposed Disposal Method For Treated Pit Wastes:  Land Application (if selected provide a completed form WW-9-GPP)  Underground Injection (UIC Permit Number 34-009-23921, 34-009-23923, 34-009-23924, 34-119-28776)  Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location)  Other (Explain Oth	
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1 "mind" 10 A [ [ ] / ] [ ] / / [ ] [ ]	My commission expires 3/22/2030 State of West Virginia My Comm. Expires Mar 22, 2020

Permanent  Seed Type Ibs/acre  Clover (pre-inoculated)  Red Clover (pre-inoculated)	, arry \$
Note that fertilizer, lime, mulch, seed mix, application rates determined by US Forestive Permanent  Seed Type   lbs/acre   Clover (pre-inoculated)	, arry \$
Permanent Seed Type   lbs/acre Clover (pre-inoculated)	2
Permanent Seed Type   lbs/acre Clover (pre-inoculated)	2
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WW-9- GPP Rev. 5/16

Page	1	of 2
API Number 47 -	-	Columbia Gas Tr
Operator's Well 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): Snorting Lick Run of the Greenbrier River Quad: Sinks of Gandy

Farm Name: US Dept of Interior (managed by BLM and US Forest Service)

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

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment.

Spills from construction equipment and well treatment fluids is the only source of contaminate to groundwater.

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

All construction and well servicing equipment will be monitored and inspected daily for leaks. Fluid pumping well service equipment will have secondary containment under all leak paths. Spill kits will be on site.

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

East Fork of Glady Fork is approximately 1800 ft to the NE. Snorting Lick Run is approximately 1950 ft to the SW.

The closest Well Head Protection Area is 2 miles (USFS Middle Mountain Cabin). Refer to enclosed assessment letter dated 7/15/16 from Department of Health and Human Resources, Source Water Assessment and Protection department.

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

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

JUL 2 7 2016



P	age	2	of 2	
API Number 47 -		-		
Operator's Well No				

N/A		
Provide a statement that no waste material wi	ill be used for deicing or fill material on the property.	
No waste material will be used for de	eicing or fill material on the property.	

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

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

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

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

Signatur

Date:



# STATE OF WEST VIRGINIA DEPARTMENT OF HEALTH AND HUMAN RESOURCES BUREAU FOR PUBLIC HEALTH OFFICE OF ENVIRONMENTAL HEALTH SERVICES

Earl Ray Tomblin Governor Karen L. Bowling Cabinet Secretary

July 15, 2016

William Timmermeyer CESSWI Natural Resource Permitting Principal TransCanada | Columbia Pipeline Group 1700 MacCorkle Ave., SE Charleston, WV 25314

> Re: SWAP Information Request Storage Well -38.718347,-79.741161 Pocahontas County, West Virginia

Dear Mr. Timmermeyer:

In response to the informational request dated July 15, 2016 concerning the closest Protection

Areas to the indicated storage well, we have found the following:

Wellhead Protection Area	WV9942049	USFS Middle Mountain Cabin	2 miles
Zone of Critical Concern	WV3304202	Town of Beverly	6 miles
Zone of Peripheral Concern	WV3304204	Town of Harman	5 miles

Your location is 85.42 river miles upstream from the System Denmar Correctional Center.

We do not have information regarding private drinking wells in the area. I suggest you contact the county health department for this information.

I hope the information provided helps you with the completion of your project. If you have any questions, please do not hesitate to contact me at (304) 356-4309.

Sincerely,

Lisa A. King, GIS Administrator

Source Water Assessment and Protection

CC: William J. Toomey

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Office of Oil and Gas

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### WV DEP Reclamation Plan - Site Detail

Glady 7468 Stimulation

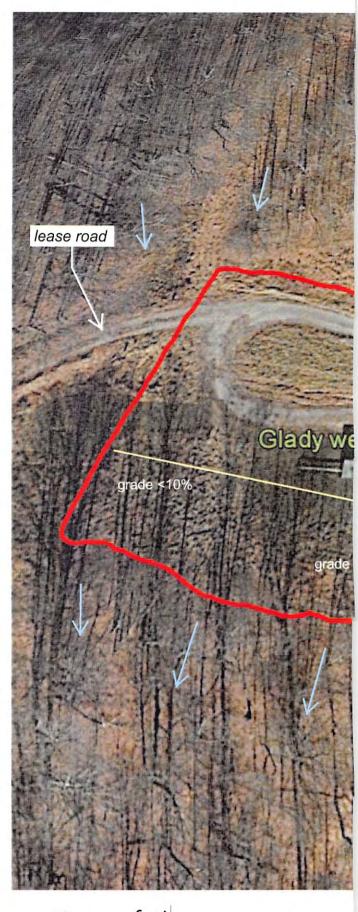


- Existing road surface and culverts to be maintained
- BMPs to be utilized per WV DEP guidelines
- Requirements by US Forest Service to be implemented

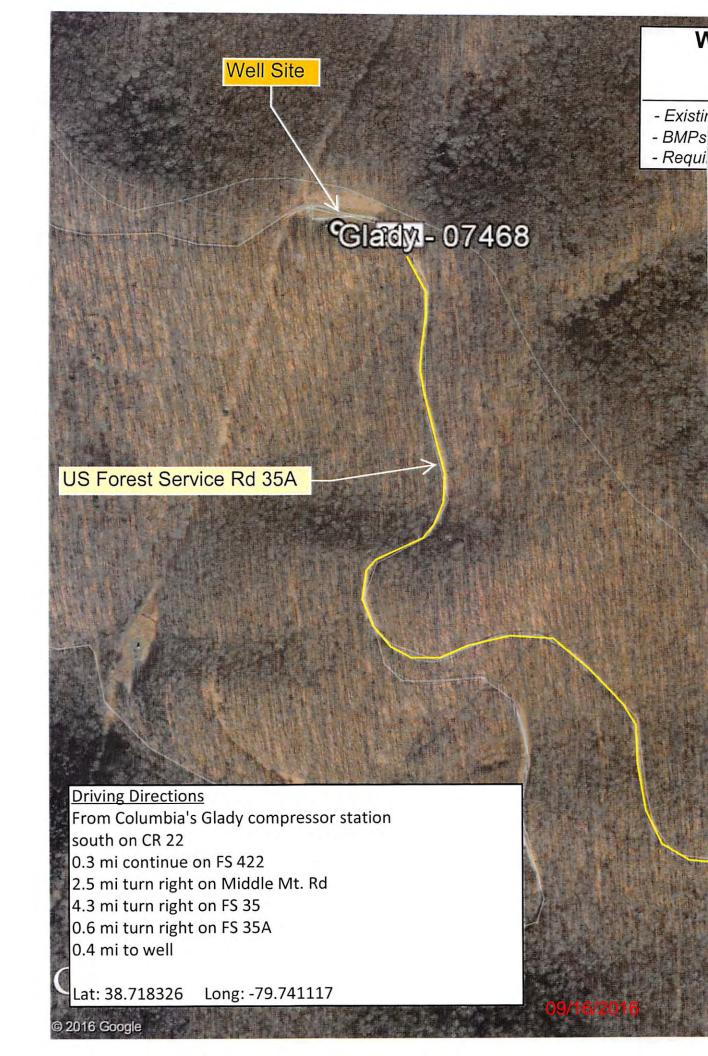


of Oil and Gas

JUL 2 7 2016







(BEVERLY EAST)

TOPOGRAPHIC SERIES (WHITMER)

my**topo** 

