

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

April 28, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8300089, 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.

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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin

Operator's Well No: 7426

Farm Name: USA

API Well Number: 47-8300089

Permit Type: Plugging
Date Issued: 04/28/2015

05/01/2015

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. 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.

The Office of Oil and Gas is considering granting a general variance to the requirements under 35CSR4-5.5b of erecting a monument upon the plugging of certain wells. If granted, the following conditions will be met:

the well will be surveyed and a plat constructed as required under 22-

6 of the WV Code and 35CSR4,

a readily visible, permanent offset marker, in as close proximity as 2) reasonably possible, will be erected and will provide distance and bearing information to the plugged well,

the plugging affidavit (form WR-38), will document the absence of a 3) monument at the well location and document the existence and

location of the offset marker,

a steel plate no smaller that one square foot shall be affixed to the well 4) casing no deeper than three feet below the ground surface and be inscribed with the api number of the well.

To qualify under the general variance, an operator may make a variance request to the Chief of the Office of Oil and Gas for a specific well(s) in conjunction with a showing of good cause by the surface owner.

· PLACE OFFSET MARKER AT THE BASE OF A SLOPE, SO AS TO PROTECT IT.

PAINT MARKER AN ENVIRONMENTALLY FRIENDLY GREEN,

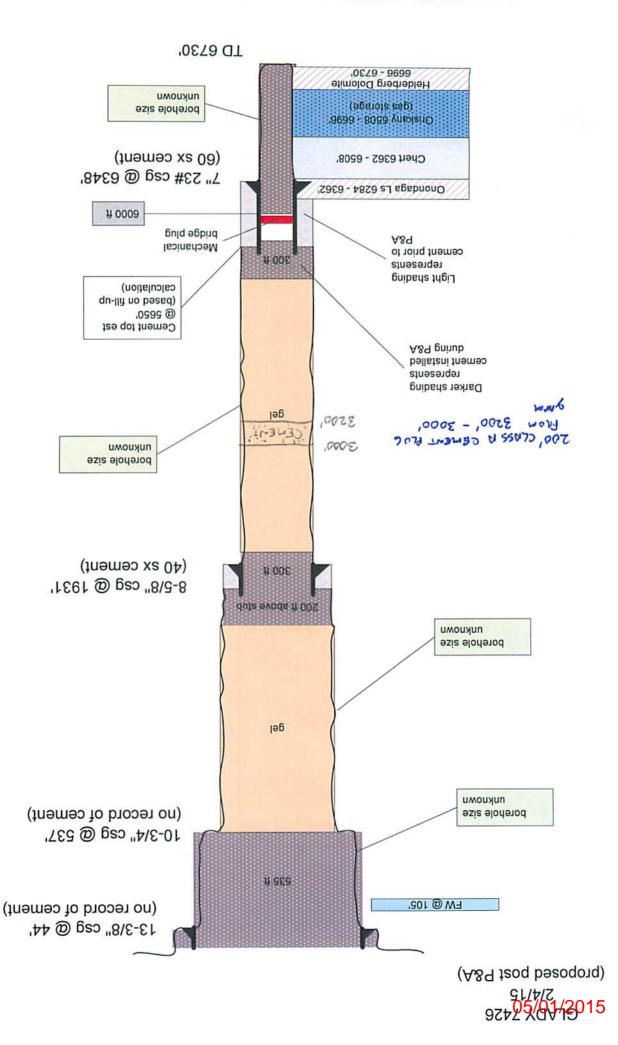
WW-4B Rev. 2/01

1) Date 2/5	20 15
2) Operator's	
Well No. Glady 7426	
3) API Well No. 47-083	- 00089

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

OFFICE OF V	JII AND GAS
APPLICATION FOR A PERM	IIT TO PLUG AND ABANDON
4) Well Type: Oil / Gas X / Liquid	injection / Waste disposal /
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	derground storage X) Deep X / Shallow
010	
5) Location: Elevation 946.9 m (3106.6 ft)	Watershed unnamed tributary of Glady Fork
District Dry Fork	County Randolph Quadrangle Glady, WV
DISCITCE	Quadrangle_olds,
6) Well Operator Columbia Gas Transmission, LLC	7) Designated Agent Paul Amick
Address 1700 MacCorkle Ave SE	Address 1700 MacCorkle Ave SE
Charleston, WV 25325-1273	Charleston, WV 25325-1273
Charleston, VVV 20020 1270	Chaneston, VVV 20020-1210
O) Oil and Cas Inspector to be notified	OVPlugging Controlter
8) Oil and Gas Inspector to be notified Name Bill Hatfield	9) Plugging Contractor Name Contractor Services Inc (CSI)
Address PO Box 522	Address 929 Charleston Rd
Buckhannon, WV 26201	DECOMPOSITION SERVE
Buckhailloll, WV 20201	Spencer, WV 25276
	Il casing that is free. If casing is not removed, and CBL indicates casing is not intervals known to contain oil, gas, or water. If casing is removed exposing
borehole, install cement plugs across subject intervals based on same crit	eria. Install cement plugs across all casing top stubs and casing shoes. Install
	4" below GL (requested by the US Forestry Service since wells are located in
in Monongahela National Forest and install steel cap with API no. tack-weld. SET 2001 CLASS A CEMENT PLUG FROM TAG ALL PLUGS, ADA CEMENT IF NEEDERM MUST SET AN APPROLATE OFFSET MARK	Office of Oil and Gas
7 (03)	ER.
	Environment Department of
otification must be given to the district of	Environmentation tection
	VVVIIGO
otification must be given to the district oi ork can commence. ork order approved by inspector buyer	Environmental Department of Environment of Environmental Department of Environment of Environmental Department of Environment of Environm

db800058



GLADY 7426



DEPARTMENT OF MINES OIL AND GAS DIVISION 12

Quadrangle	Horton
Quadrangle	Horton

WELL RECORD

				G a
Oil	OF	Gan	Well	Gga

Permit No. RAN-89	WELL RECORD			Oil or Gan Well GRB		
Company Hope Natural Gas Company Address Clarksburg, ". Va.	Tubing	Used in Drilling	Left in Well	Packers		
Farm U.S. Dept. Of Interior Acres 2 Location (waters) Well No. 9999 District Dry Fork County Randolph	Size 105† 16	14	44	Kind of Packer		
The surface of tract is owned in fee by	10	537 1931	537	Sise of		
Mineral rights are owned byAddress	636	6348	6348	Depth set		
Drilling commenced 8-10-56 Drilling completed 5-15-57	3			Perf. top		
Date Shot Not shot From To With				Perf. top		
Open Flow /10ths Water in/10ths Merc. in	Inch CASING CEMI			•		
Rock Pressure 2000# lbsbbls., 1	COAL WAS E	ced with oncounters	O Bags	FEETINCHE		
WELL FRACTURED 5-21-57	FEE	r	CHES	FEETINURE		
WELL FRACTORED				•		

174 M RESULT AFTER TREATMENT

ROCK PRESS	OKE AI	TER IREA	THEN I		
March Water	XXXX	1051	Fort	Salt Water_	 Feet.

	Fresh Water_No	XX_1051	Fect		Salt Water		Feet	
Slate Shells	Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth (Remarks
Slate Shells	Time			0	30			C OF CENT
Slate Shells					60		& he	1/2 V/2 V/2
Slate Shells				60		•	"This has	" 1 8/2 V
Sand Gritty Lime Slate Shells Sand Slate Shells Gritty Lime Slate Shells Gritty Lime Slate Shells Gritty Lime Slate & Shells Gritty Lime Slate & Shells Gray Lime Broken Lime Slate Shells Lime Slate Shells Slate Sh						· ·	1 102 Co.	1 9 2 G
Sand Gritty Lime Slate Shells Sand Slate Shells Gritty Lime Slate Shells Gritty Lime Slate Shells Gritty Lime Slate Shells Gritty Lime Slate & Shells Gray Lime Slate Shells Lime Slate Shells Slate Shells Lime Slate Shells Slat	ľ.		Ì			Water	105%	Dr. 10/5 79
1000 1050 1960							المَرْبِي اللهِ	(m)
1000 1050 1960							. 9	10°00
1000 1050 1960					832 '	•		(0) (0)
1000 1050 1960					850			Cy.
1000 1050 1960					880		}	0
1000 1050 1050 1960							Ĭ	
Gritty Lime Slate & Shells Gray Lime Broken Lime Slate Shells Lime Slate Shells Sla								
Slate & Shells Sh						·	1	
Gray Lime Broken Lime Slate Shells Lime Slate Shells Gray Lime Slate Shells Slate S						<u>.</u>		
State Shells Stat		.8				£362	2023	l
Lime 5144 5180 5724 5169 5724 . 05/01/2						(Call Care		
Lime 5144 5180 5724 5169 5724 . 05/01/2					2200		[cs 72]	
Lime 5144 5180 5724 5169 5724 . 05/01/2	The state of the s			1	32.00	101 B	الما المانية	
Lime 5144 5180 5724 5180 5724 . 05/01/2		•			1,325	18 nEC	FINE C	
Lime 5144 5180 5724 5180 5724 . 05/01/2			1		4,20	S KE	VIRGINIA OF	
Lime 5144 5180 5724 5180 5724 . 05/01/2					4610	MEST MEST	OF WHITES	1
Lime 5144 5180 5724 5169 5724 . 05/01/2					1,050	La Dier	1000	
Lime 5144 5180 5724 5169 5724 . 05/01/2					5050	Sitt	PI TINLY	
Lime 5144 5180 5724 5180 5724 . 05/01/2		3			57//		Carried I	
Dark Shale 5169 5724 . 05/01/2					51.80			
Dair 911020							,	05/04/004
I	L L					•	•	05/01/2015
man roze	Lime						1	
Shale 5780 5835 5867					5867	,	1	

et '	me 56, 1957	Date NK J	·		·		
···			·				
			·	t ·	•		
	• .			1963			• •
	•		,		· سد ·		4
				·		_ · -	·
			·	·			
· · · · · · · · · · · · · · · · · · ·							
			<i>t.</i>	·			
			,,,			_	
•						1	
							·
			3.1	C (·		
	. ·						
			•	,			
			10578			t	Total Dept
	10599	esə	0549 0749 7759 7829 8865 8865	0TL9 TT\$9 2969 1829 \$265 8565 L98\$		3	HEIDERBERG OBISKANA ONCONDAGA Brown Breal Brown Breal Brown Breal
witzmsA	Depth Found	Oil, Gas	motiofi	1 doT	Hard or Stog	Color	noitemroc

Date MM June 26, 1957, 19

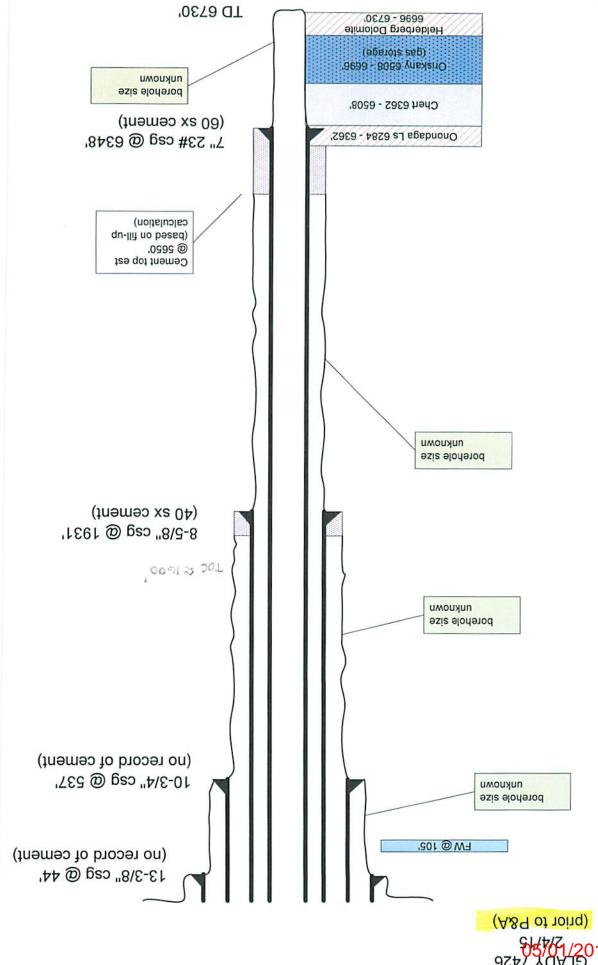
Hope Hetural Gas Company

(airrr)

Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Dark Shal Shale & L. Brown Bre CNONDAGA CHERT CRISKANY HELDERBER	Lme Alc		5857 5958 5988 6284 6362 6511 6710	5958 5988 6284 6362 6511 6710 6730	Gas	66501	
Total Dep	th l		•	67301			
	[·						
		•				•	
			(°)				
				• • • • • • • • • • • • • • • • • • •			
				•			
		. •		•			
· .							
			;; <i>,</i>	• 1			
•						. •	[`.
	· ·			· .			
			∜ /	Y	·		
•			ن			1	
					· ·		
•							
	1						
		: A -1					•
			•	·		·.	
:	-			<u> </u>			
	.,						
						· .	·
•	•						ŀ
			•				
	·- · · -			,			1 .
							1.
•		٠				100	
					.		
• •							
• • • • • • • • • • • • • • • • • • • •							
•				*			
• .		•		†	· · · • . :	**	05/04/004/

APPROVED Hope Natural Gas Company Owner

(Titl



\$6800053

WW-4A Revised 6-07

1)	Date:	2/5/15	
2)	Operator'	s Well Number	
Glad	y 7426		

3) API Well No.: 47 -

083

00089

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

		NOTICE OF	APPLICATIO	N TO PLUG AND AB	ANDON A WELL
4)	Surface Own	er(s) to be served:	5) (a) Coal Operator	
	(a) Name	US Dept of Interior (manag	ed by BLM)	Name not op	perated
	Address	626 East Wisconsin Ave S	Suite 200	Address	
		Milwaukee, WI 53202-461	7		
	(b) Name			(b) Coal Owner(s)	with Declaration
	Address			Name	
		7		Address	
	(c) Name			Name	
	Address			Address	
				_	
	Inspector	Bill Hatfield		(c) Coal Lessee w	ith Declaration
	Address	PO Box 522		Name	
		Buckhannon, WV 26201		Address	
	Telephone	304-767-1828		_	
	Protection, v the Applica	ng documents for a permit to with respect to the well at the	plug and abandon a v location described or mailed by registered	well with the Chief of the Office in the attached Application and d or certified mail or delivered b	proposes to file or has filed this Notice and Application and of Oil and Gas, West Virginia Department of Environmental epicted on the attached Form WW-6. Copies of this Notice, y hand to the person(s) named above (or by publication in
			Well Operator	Columbia Gas Transmission	
			By:	James E Amos	Janotticon Changes
			Its:	Senior Well Services Engineer	on and Ga
			Address	1700 MacCorkle Ave SE	MAR 1/902015 2015
				Charleston, WV 25325-1273	WAN-1.9 2015
			Telephone	304-483-0073	WV Dangetmont of
Sul	becribed and	sworn before me this	9th de	ay of march	Environmental Relatestinecti
2	nary m	arie Clead	e de de	, or enough,	Natary Public OFFICIAL SEAL
My	Commission	Expires 3/22	12015		NOTARY PUBLIC STATE OF WEST VIDOUS
Oil	and Gas Priva	cy Notice			MARY MARIE CLENDENIN COLUMBIA GAS TRANSMISSION CORPORATION RR 2 BOX 138 SANDYVILLE WY 25275

The Office of Oil and Gas processes your personal information, such as name, address and phone information processes 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 depprivacyoffier@wv.gov.

Note that this well is located in the Monongahela National Forest. The surface owner is the US Dept of Interior, and is managed by the BLM and US Forestry Service. Both parties have already approved the proposed well work per the enclosed BLM Sundry Notices and Reports on Wells dated 3/6/15, and USFS Condition of Approval dated 2/9/15. Columbia requests that the 15 day comment period be waived, and the well work permit be issued at the DEP's earliest convenience.

SURFACE OWNER WAIVER

Operator's Well Number

Glady 7426

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

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.

<u>Comments must be in writing.</u> 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.

Office of Oil

VOLU	NTARY STA	ATEMENT OF NO OBJECTION RECEIVED
I hereby state that I have read	the instruct	ions to surface owners and that I have received copies of a Notice
and Application For A Permit To Plug	And Abandor	ions to surface owners and that I have perceived conies of a Notice on Forms WW-4A and WW-4B, and a survey plays
I further state that I have no objection to a permit being issued on the FOR EXECUTION BY A NATURAL FETC.	objection to nose material PERSON	the planned work describen in these materials. and 15 have no is. FOR EXECUTION BY ACCREPATION, Environmental Protection
	Date	Name
Signature		Ву
		Its Date

Signature

05/04/2015

Revisions to Operator-Submitted EC Data for Sundry Notice #293228

Operator Submitted BLM Revised (AFMSS)

Sundry Type:

VARI NOI

WVBLMA023190A WVBLMA030490 Lease:

WVES39982 (WVES39982) WVES39982 Agreement:

COLUMBIA GAS TRANSMISSION LLC 1700 MACCORKLE AVE SE CHARLESTON, WV 25325-1273 Ph: 304.373.2412 Fx: 304-373-2438 COLUMBIA GAS TRANSMISSION, LLC Operator: 1700 MACCORKLE AVE SE CHARLESTON, WV 25325-1273

Ph: 304-357-3445

JAMES E AMOS SENIOR ENGINEER Admin Contact: **JAMES E AMOS** SENIOR ENGINEER

E-Mail: jamos@nisource.com Cell: 304-483-0073 Ph: 304-373-2412 Fx: 304-373-2438 E-Mail: jamos@nisource.com Cell: 304-483-0073 Ph: 304-373-2412 Fx: 304-373-2438

Tech Contact: JAMES E AMOS SENIOR ENGINEER JAMES E AMOS SENIOR ENGINEER E-Mail: jamos@nisource.com Cell: 304-483-0073 Ph: 304-373-2412

Selvior Engineers E-Mail: jamos@nisource.com Cell: 304-483-0073 Ph: 304-373-2412 Fx: 304-373-2438 Fx: 304-373-2438

Location: State:

RANDOLPH RANDOLPH County: **GLADY STORAGE FIELD GLADY** Field/Pool:

Well/Facility: **GLADY 7426** 7426 Tract US-26F

38.864100 N Lat, 79.650000 W Lon 38.864071 N Lat, 79.649826 W Lon

> RECEIVED Office of Oil and Gas

> > MAR 1 9 2015

WV Department of **Environmental Protection** Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

	BUREAU OF LAND MANAGEMENT					July 31, 2010
SUNDRY NOTICES AND REPORTS ON WELLS				5. Lease Serial No. WVBLMA03049	30	
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.					6. If Indian, Allottee or Tribe Name	
SUBMIT IN TRIPLICATE - Other instructions on reverse side.				7. If Unit or CA/Agree WVES39982	ement, Name and/or No.	
1. Type of Well					8. Well Name and No. 7426	•
Oil Well Gas Well 🖸 Ot						
2. Name of Operator COLUMBIA GAS TRANSMIS	Contact: SION LLG-Mail: jamos@nis	JAMES E AN source.com	ios		9. API Well No. 47-083-00089-0	00-S1
3a. Address 1700 MACCORKLE AVE SE CHARLESTON, WV 25325-1	273	Ph: 304-37	3b. Phone No. (include area code) Ph: 304-373-2412 Fx: 304-373-2438		10. Field and Pool, or Exploratory GLADY	
4. Location of Well (Footage, Sec., 7)			11. County or Parish,	and State
Tract US-26F 38.864100 N Lat, 79.650000	W Lon				RANDOLPH C	OUNTY, WV
12. CHECK APP	ROPRIATE BOX(ES) TO	INDICATE	NATURE OF	NOTICE, RI	EPORT, OR OTHE	R DATA
TYPE OF SUBMISSION			TYPE	OF ACTION		
- N	☐ Acidize	☐ Dee	pen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off
Notice of Intent	☐ Alter Casing	☐ Frac	ture Treat	☐ Reclama	ation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	□ New	Construction	☐ Recomp	lete	Other
☐ Final Abandonment Notice	☐ Change Plans	Plug	and Abandon	□ Tempor	arily Abandon	Onshore Order Varian
	☐ Convert to Injection	Plug	Back	■ Water D	Disposal	••
13. Describe Proposed or Completed Op If the proposal is to deepen direction Attach the Bond under which the wo following completion of the involver testing has been completed. Final Al determined that the site is ready for it	ally or recomplete horizontally, rk will be performed or provide I operations. If the operation re- bandonment Notices shall be file	give subsurface the Bond No. or sults in a multipl	locations and mea i file with BLM/B e completion or re	sured and true ve IA. Required sul ecompletion in a r	rtical depths of all perti- psequent reports shall be new interval, a Form 310	nent markers and zones. filed within 30 days 60-4 shall be filed once
Project to be performed betwee Duration: +/- 45 days.	een 4/1/15 - 11/15/15.					
P&A Procedure: * refer to "before P&A" and "p * method of P&A to comply with	roposed post P&A" wellbo th WV DEP Office of Oil 8	ore schematic & Gas regulati	s ions/code			
Kill well. Obtain cement bond log to Clean to TD and install both Install mechanical bridge place. Cut and pull all casing that	om cement plug across si ug above bottom cement	torage perfs/z	cone(s).			
14. I hereby certify that the foregoing is	Electronic Submission #: For COLUMBIA GA	S TRANSMIS\$	ilON LLC, sent	to the Milwaul	(ee	
Com Name(Printed/Typed) JAMES E	mitted to AFMSS for proces AM∩S	ssing by CAR		on 02/27/2015 (DR ENGINEE	•	
Tameli Lancon Albert Aluaico C	7.00.00		- ULIVII	LITOIITEE		
Signature (Electronic	Submission)		Date 02/26	/2015		

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By TREY MITCHELL TitlePETROLEUM ENGINEER Da

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Milwaukee

Date 03/06/2015

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional data for EC transaction #293228 that would not fit on the form

32. Additional remarks, continued

- 6. Perforate and squeeze cement any casing that can't be pulled across driller shows.
- Install cement plugs across all driller shows, casing stub tops, and casing shoes.
- 8. Install top/surface cement plug.
- 9. Grout conductor annulus.
- 10. Cut off all remaining casing 24" below GL (per US Forestry Service).
- * Note that 8.6 ppg 6% bentonite gel will be spotted between all cement plugs. See request for waiver below.

COLUMBIA IS RESUBMITTING THIS SUNDRY NOTICE PER DIRECTION FROM MR. TREY MITCHELL (BLM ENGINEER) SEEKING RE-APPROVAL WITH THE FOLLOWING WAIVER.

THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION - OFFICE OF OIL & GAS, REQUIRES THAT ALL SPACERS BETWEEN CEMENT PLUGS BE FRESH WATER BASED. ONSHORE OIL & GAS ORDER(S) REQUIRE SPACERS TO HAVE A MINIMUM DENSITY OF 9.0 PPG. BASED ON TYPICAL DRILLING AND WELL SERVICING FLUIDS RHEOLOGY, IN ORDER TO ATTAIN A SPACER FLUID WITH A DENSITY OF 9.0 PPG (OR GREATER) THAT WILL MAINTAIN DENSITY OVER AN EXTENDED PERIOD OF TIME, A SALT COMPONENT IS REQUIRED. PER AN EXPLANATION PROVIDED BY THE WV DEP, SALT (NaCI, KCI, CaCI, etc) IS NOT PERMITTED IN THE SPACER BECAUSE OF THE POSSIBILITY FOR CONTAMINATION OF FRESH WATER STRATA.

DUE TO THE CONFLICTING REGULATORY REQUIREMENTS DESCRIBED ABOVE, COLUMBIA IS REQUESTING A WAIVER FROM THE BLM TO UTILIZE 8.6 PPG 6% BENTONITE GEL SPACERS BASED ON THE FOLLOWING JUSTIFICATION. ACCORDING TO WELL RECORDS AND A +50 YEAR HISTORY OF OPERATING IN THE GLADY STORAGE FIELD, COLUMBIA HAS NO DATA TO SUGGEST THAT PORE PRESSURE GRADIENTS EXCEED 0.447 PSI/FT (8.6 PPG EQUIVALENT). THIS INFO WAS PRESENTED TO MR. MITCHELL VIA TELEPHONE CONVERSATION ON 2/26/15, AND AFTER DISCUSSIONS, WAS DETERMINED SHOULD BE ADEQUATE SUPPORT TO GRANT THE WAIVER AND RE-APPROVE THE SUNDRY NOTICE.

7426 47-083-00089 Columbia Gas Transmission, LLC WVES 39982 February 9, 2015 Conditions of Approval

- 1. Contact Jim Wood or Julie King, BLM inspectors, a minimum of 72 hours prior to starting abandoning operations.
- 2. **Variance to Onshore Order 2 III.G.9. A minimum of a 8.6 ppg fluid shall be pumped in between plugs.
- 3. BLM may direct you to test critical/questionable plugs by tagging with the working pipe string.
- 4. Within 30 days after you finish plugging the well, send BLM a final Sundry Notice Form 3160-5 summarizing the actual downhole work performed, the dates the work was started and completed, and the status of reclamation activities.

USFS Final Reclamation Requirements

- 1) Removal of all surface structures, tanks, fence and signs.
- 2) Collection and storage of all drill and produced fluids into tanks.
- 3) Proper disposal of all fluids off National Forest System Lands. Land application is not permitted.
- 4) All pipe/wellhead casing removed down to ground level or below ground as applicable.
- 5) Re-contour the well pad/site to original contour line as practicable or as directed by responsible Forest official.
- 6) The contractor shall provide portable toilets for use during plugging/abandonment and reclamation activities.
- 7) Gathering line(s) to be left in place and welded closed.
- All access roads will be maintained as necessary during the reclamation. After reclamation activities at the well sites have been completed, any Forest Service System road into the well site, for which the operator has been responsible for maintenance IVED activities, shall be reshaped to remove potholes and ruts and to establish proper Growniand Gas All drainage structures including culverts, ditches and dips shall be cleaned, reshaped, or repaired as necessary for proper drainage. Stone or other suitable materials shall be a 2015 provided as necessary to complete the reshaping and repair activities, as determined by the U.S. Forest Service.
- 9) Prior to commencement of activities, the operator shall provide site specific entrol Protection control plans, for the area of disturbance associated with each activity, to the U.S. Forest Service for review and acceptance. The erosion control plan shall show all silt-fence.

straw bales and other erosion control devices to be used to prevent erosion and to prevent sediment from escaping the work area, and shall show their respective locations. All trapped sediment shall be properly disposed of and all erosion control devices shall be removed from National Forest System Lands upon completion of the reclamation process.

- 10) Earth disturbing/re-contouring activities are to be completed by the end of the normal operating season which is November 15.
- 11) Contact the FS at least 48 hours prior to commencing reclamation measures.
- 12) No trees over 5" DBH shall be cut between March 31st and November 15th without prior Forest Service Approval.
- 13) Addition of organics to the soil and break up of ground compaction may be required to obtain satisfactory re-vegetation. All organics, to be used in the reclamation process, must be approved prior to being brought onto Forest property.
- 14) All non-system Forest Service roads associated with the well site shall be de-compacted and reshaped to match existing ground contours as part of the reclamation process.
- 15) he well site monument will be surveyed, placed at least 2-3 feet below the final ground surface, and located using GPS.
- 16) Use the following enclosed seed mix, lime, fertilizer and straw mulch rates and amounts listed below.

SEEDMIX

Winter Wheat (June 15-Nov. 15) or Spring Wheat (Feb15 – June 15) – 40 lbs./acre Alfalfa (pre inoculated) – 10 lbs./acre Durana Clover (pre inoculated) – 2 lbs./acre Mammoth Red Cover (pre inoculated) – 5 lbs./acre Chicory – 3 lbs./acre

Total seeding will be 60 lbs./acre.

MULCH-

Weed free straw

FERTILIZER-

Use 10-20-10, at 500 lbs./acre

LIME

Lime pellets at 3 tons/acre

RECEIVED
Office of Oil and Gas

MAR 1 9 2015

WV Department of Environmental Protection

GOVERNMENT CONTACTS

Bureau of Land Management (BLM) Northeastern States Field Office 626 East Wisconsin Ave., Suite 200 Milwaukee, Wisconsin 53202-4617

Name	Agency/Title	Office Phone	Mobile Phone
Jim Wood	BLM/Engineering Technician	(740) 373-5029	(414) 573-4548
Julie King	BLM/Engineering Technician		(985)-856-6296
Will Wilson	Minerals Administrator	(304) 636-1800 Ext 275	-

TAM 022514

RECEIVED
Office of Oil and Gas

MAR 1 9 2015

WV Department of Environmental Protection



Re: Glady Well 7468

William Timmermeyer to Arbogast, Chad H -FS

02/20/2015 10:18 AM

Jim Amos, Jason Chambers

Normal Priority.

This message has been replied to and forwarded.

Thank you for the clarification.

Sent from my iPhone

On Feb 20, 2015, at 10:17 AM, Arbogast, Chad H -FS <charbogast@fs.fed.us> wrote:

The washing of the equipment is geared more toward earth moving equipment such as dozers, excavators, rubber-tired hoes etc. The vehicles should be washed prior to the initial entrance, and rewashed if they are used elsewhere and get coated in heavy soil such as mud in the fender wells, around the bumper, in the undercarriage, etc.

Also, the equipment should be washed when changing areas within the Forest, such as moving from one well pad to another which is not in an adjacent location. The vehicles that are mainly road vehicles are not as great a concern so long as there is no build-up of soil underneath or on the vehicle.

Chad

M2 png Chad Arbogast

Forest Minerals Technician/Greenbrier District Range Manager

Forest Service

Monongahela National Forest

p: 304-456-3335 x121 f: 304-456-3441 charbogast@fs.fed.us

P.O. box 67 Route 250/92 Bartow, WV 24920

www.fs.fed.us

<M3 png><M4 png><M5 png>

Caring for the land and serving people

RECEIVED Office of Oil and Gas

From: wtimmermeyer@nisource.com [mailto:wtimmermeyer@nisource.com]

Sent: Thursday, February 19, 2015 12:53 PM

To: Arbogast, Chad H -FS

Cc: jamos@nisource.com; jchambers@nisource.com

Subject: RE: Glady Well 7468

WV Department of Environmental Protection

MAR 1 9 2015

Chad.

	**			
\ \ \	/ 1	A	1	ı
-VI	<i>(</i> -)	٧V	-4	ŧЮ

* Coal not operated

API No.	083-00089	
Farm Name	US Dept of Interior	
Well No.	Glady 7426	

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 then 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 _ has examined this proposed plugging wo done at this location, provided, the wel Virginia Code and the governing regulati	rk order. The undersigned has I operator has complied with a	
Date:		
	By:	
	Its	

WW-9 Rev. 5/08

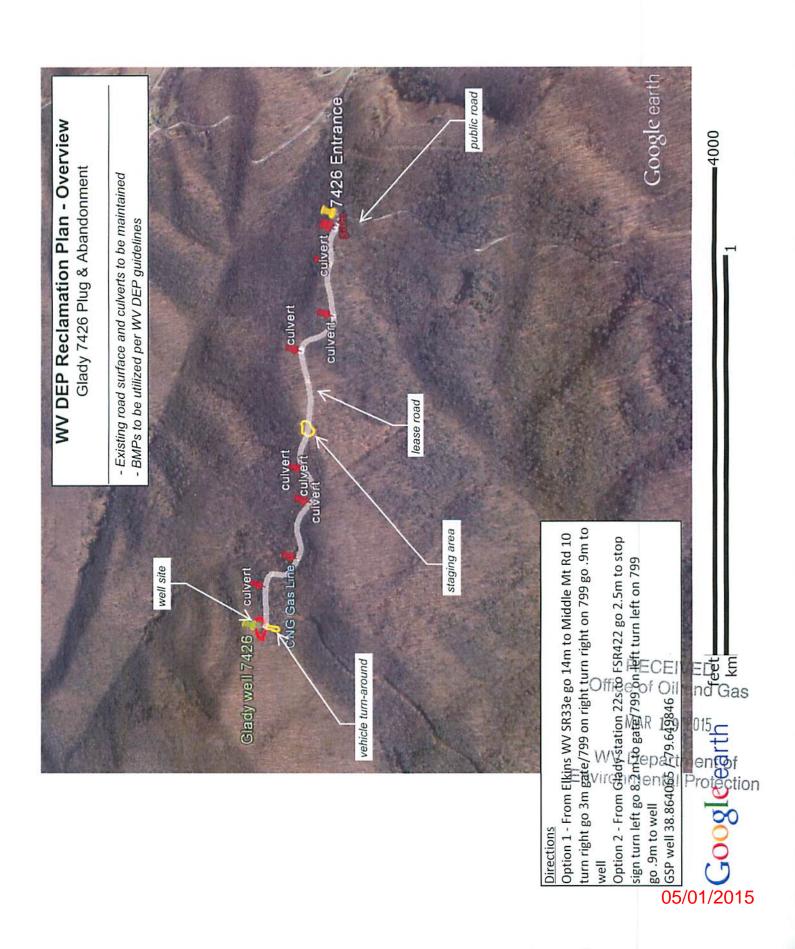
	Page		of	
API Number 47	- 083	2	00089	
Operator's Well	No. Glady 7	426		

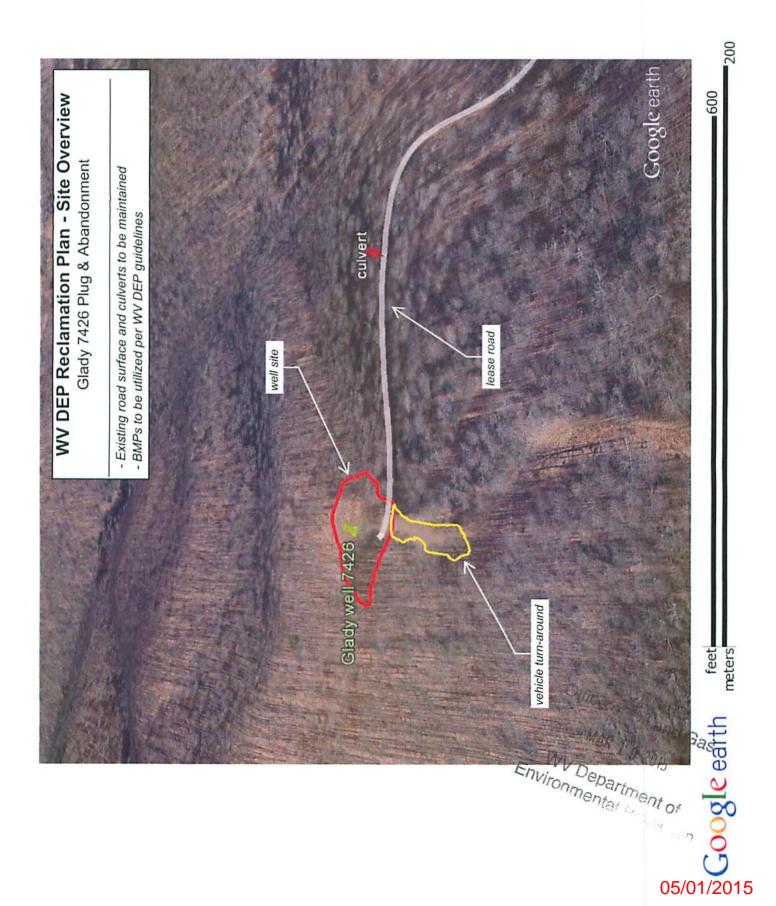
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

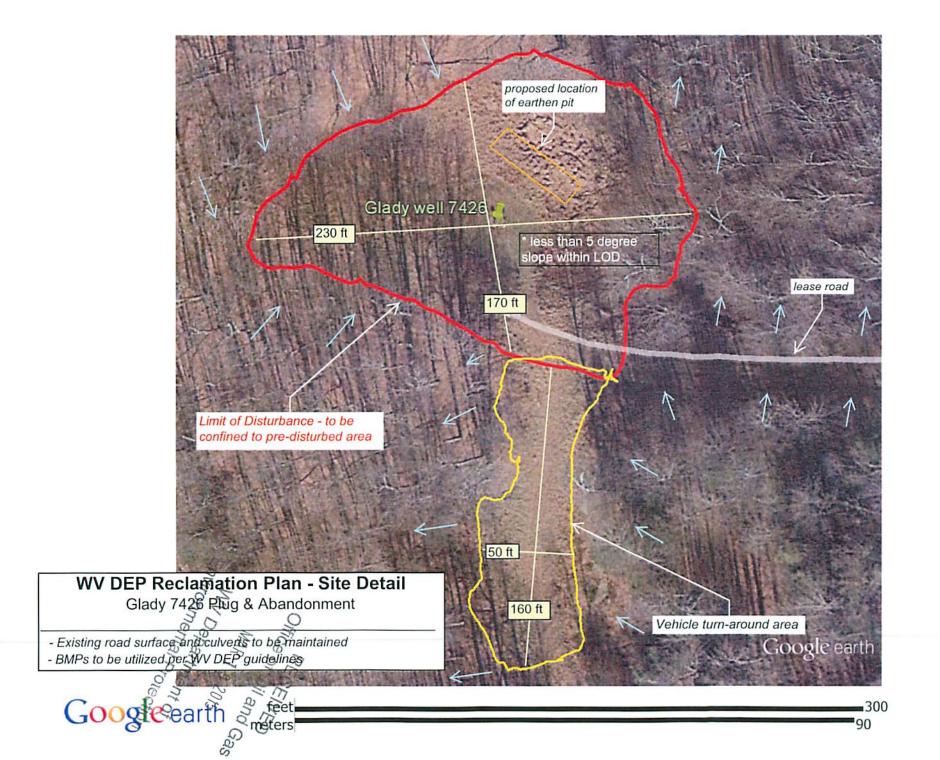
	GENER.	AL PERMIT FOR OIL AND GAS I	PIT WASTE DISCHAR	GE	
Operator Name Co	olumbia Gas Tra	nsmission, LLC	OP Code 307	7032	
Watershed unnan	ned tributary of G	Blady Fork Quadrar	ngle Glady, WV		
Elevation 946.9	m (3106.6 ft)	County Randolph	District Dry	y fork	
Description of antic	cipated Pit Waste:	resh water, starch, polyme	er, bentonite, cem	ent returns	
Will a synthetic lin	er be used in the pit?	yes - 30 mil			
Proposed Disposal	Method For Treated Land Applic				
>		d Injection (UIC Permit Number 34	4-119-28776, 34-167-23862,	, 34-121-2459)
	Reuse (at A)
_	Off Site Dist	oposal (Supply form WW-9 for disp	posal location)		
>	Other (Expl	ain Pinegrove Landfill - Amanda, Or	Н		
Proposed Work For	r Which Pit Will Be Drilling		wabbing		
-	Workover		lugging		
	Other (Expl		lugging		
provisions of the p law or regulation or I certify to application form a obtaining the informal penalties for submit Company Official	permit are enforceable an lead to enforcement and lead to enforcement and all attachments of the leading false information. I believe the titting false information and leading false information. Signature	that I have personally examined thereto and that, based on my in that the information is true, accuration, including the possibility of fine the mes E Amos	or condition of the general and am familiar with an endividuate, and complete. I are or imprisonment.	eral permit and/or oth the information subr duals immediately re m aware that there a	her applicable mitted on this esponsible for are significant
Company Official	Title Seriior W	/ell Services Enginee	<i>;</i> 1	Office C	ECEIVED
		9th day of marc	h , 20_	15 MAR	ECEIVED Of Oil and Gas
Mary In	mie Cle	deur	Notory I	Publicironmen s	tment
My commission ex	spires 3/22/2	015		MAF	NOTARY PUBLIC NOTARY PUBLIC STATE OF WEST ARGINIA RY MARIE CLENDEN BIA GAS TRANSMISSION CORPORA OF TRANSMISSION CORPORA
			2	My com	mission expires Marsh 22 5

ı	LEGEND
Property Boundary	Diversion William 111111111111111111111111111111111111
Road = = = = = = = = = =	Spring
Existing Fence — X — X — X —	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches
Stream	Waterway \longleftrightarrow
Open Ditch	Cross Drain
Rock E35882	Artificial Filter Strip
North N	Pit: cut walls
Buildings Water wells	Pit: compacted fill walls Area for Land Application of Pit Waste
Drill site	Alex to Land Application
Dilli site	
Proposed Revegetation Treatment: Acres Disturbed < 0.5 at Lime Pellets © 3 Tons/acre or to correct to pH Fertilizer (10-20-10 or equivalent) 500 lbs/	rievegetation pri
Mulch weed free straw @ 2	application rates determined
60 () () () () () () () () () (by 00 to leasily delivide.
Seed	Mixtures
Area I Seed Type lbs/acre	Area II Seed Type lbs/acre
Seed Type lbs/acre Winter Wheat (6/15 - 11/15) 40	,
Total 16 Committee of Total Committee of the Committee of	
Spring Wheat (2/15 - 6/15) 40	Mammoth Red Clover (pre-inoculated) 5
Alfalfa (pre-inoculated) 10	Chicory 3
* total seeding will be @ 60 lb/acre	
Attach: Drawing(s) of road, location,pit and proposed area for land appl Photocopied section of involved 7.5' topographic sheet.	ication.
Plan Approved by: Sugar O'lam	
The transfer of the transfer o	Offic RECEI
	OF OIL VED
Title: Field Reviewed? () Yes (Date: 3-12-15 Date: 3-12-15 Environmental Professors 05/04/2015
	05/01/2015

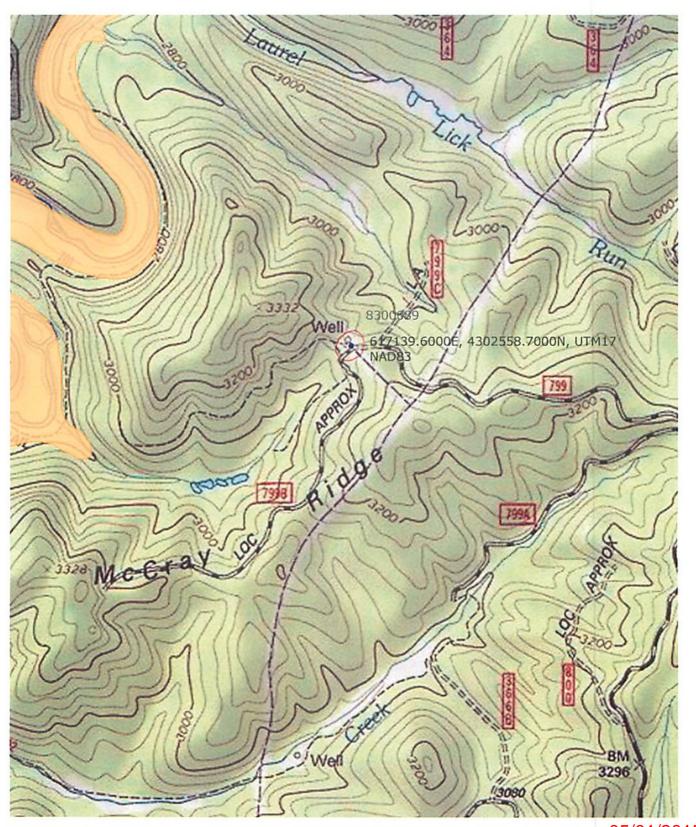












05/01/2015

WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

WELL LOCATION FORM: GPS
API: 47-083-00089 WELL NO.: 7426
FARM NAME: US Dept of Interior
RESPONSIBLE PARTY NAME: Columbia Gas Transmission, LLC
COUNTY: Randolph DISTRICT: Dry Fork
QUADRANGLE: Glady, WV
SURFACE OWNER: US Dept of Interior
ROYALTY OWNER: US Dept of Interior (storage lease)
UTM GPS NORTHING: 4302558.7 m
UTM GPS EASTING: 617139.6 m GPS ELEVATION: 946.9 m (3 10 5.8
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters. 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed Differential
Real-Time Differential X RECEIVED Mapping Grade GPS X: Post Processed Differential X Office of Oil and Gas
Real-Time Differential Office of Oil and Gas
4. Letter size copy of the topography map showing the well location. I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and Protection prescribed by the Office of Oil and Gas. Senior Engineer Title MAR 1 9 2015 1 27 15 Date