

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

May 15, 2014

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-7700164, 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.

James Martin

Chief

Operator's Well No: 7535 (Terra Alta South 7535)

Farm Name: FLEMING, ANITA

API Well Number: 47-7700164 Permit Type: Re-Work

Date Issued: 05/15/2014

PERMIT CONDITIONS

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

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR § 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within 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.

TERRA ALTA SOUTH 7535 – DRIVING DIRECTIONS

In Aurora, WV - US 50 W to CR 53/3 (Donna Jean's restaurant), N on CR 53/3 (Fox Rd), bear left on CR 53 (Aurora Pike), go @1 mile to CR 80 (Manheim Lantz Ridge Rd), left on CR 80, go to church, turn left on Madison Rd (no sign). Follow Madison road to well location on left side of public road.

WW - 2B (Rev. 8/10)

Depths Set

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION 17

	27-28-201	ilula Gas	Transmission, LL	C 307032	Preston	Union	Aurora
	-			Operator ID	County	District	Quadrangle
) Operator's V	Vell Numb	er: Terra	Alta South 7535 (e	xisting well)	3) Elevation:	2607	0
) Well Type: (a) Oil	or Ga	ıs X				0
(1	b) If Gas:	Produ	ction / Und	lerground Sto	rage X	_ /	File
		Deep	<u>x</u> /s	hallow		77	4/4/19
) Proposed To) Approximate	otal Depth e fresh wa	ter strata	Oriskany Feet Fa depths: none report none reported by drille	Formation at I	Proposed Total	rget Depth! 64 al Depth: Helde	
Annualmat		m dontha	none reported b	v driller in 1971			
Approximate	e coai sea	m aeptns	s: none reported b	y diller in 1971		_	
)) Approxima	te void de	pths,(coa	al, Karst, other):	none reported t	by driller in 1971	-	_
1) Door land	contain co	al coom	a tributany to acti	ive mine? n	0		
i) Does land	contain co	oai seam	s tributary to acti	ive mine?			_
2) Describe pro	posed we	ll work an	d fracturing method	ods in detail (a	ttach additiona	al sheets if nee	ded)
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	ng. Obtain o	casing insp	pection logs. Install	new wellhead.	Acid stimulate (if deemed neces	ssary).
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Quadrangle_Kingwood_



4707700164W

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

Rotary	
Spudder	
Cable Tools	
Ctoroso	RF1

WELL RECORD	WEL	L I	REC	OR	
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Permit NoPr	es. 164		. VV C. bolo	RECORD		Gil or Gas V	Vell GES (KIND)
Company Colu	mbia Gas Tr . Box 1067,	ansmission (Elkins, Wes	Corporation st Virginia	Casing and Tubing	Used in Drilling	Left in Well	Packers
Farm Rober	t P. Wiles		Acres 150	Size	Ground	i	
		Run	2604	16 13_3/8"	291	K	ind of Packer
			ston			Si	ze of
		-	3. M.J.C.L.C	111 0 5 100	25841	2584'	
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Drilling commen	ced Septen	ber 26, 1971	<u></u>		•	Ĭ.	erf. top(See
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Producing Sand	Oliskany	and onerc		***************************************	Depth		
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Shale			57941	62301	•		4
Onondaga	li.		6230†	6255 '		Receive	
Chert '			6255 1	6391'	Gas		914
Shale			6391'	6408'		APR	ed Gas plaction
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Helderberg			6541'		Gas	M Debr. o.	
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	2% CaCl.	-55, casing October 3, J 580' threads	971. Casing	Set at 258	740 sacks	of Kolite pl vel, 2601' k	ıs elly
	1000' with Gel drilli	-55, plus 13 220 cu. ft. ng mud to su e1, 6261' ke	of Dowells rface with 1	RFC cement drum Baroi	lus kolite, is B-33. Cas	October 8,	1971. 5247'
	ported sea is 425' of	J-55, Seal-l ting nipple, f bottom. O 566' threads	(1) Baker E ctober 11, 1	FC Model "L' 971. 6571'	sliding sle	eve. Slidi:	ng sleeve
Perforatio	ns:				İ		
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Logging:	Gaum	a Ray- Colla (5600' - 658	r log and te	mperature			
			o) occoper	13/1			
Stimulatio		er 19, 1971					
	Octob			, ,			
	25 ba water	2150# rock rrels of fre in 2" or 17	sh water and		ded 5 gallor After 1 hour		
	Octob	er 26, 1971		•			
	gallo avera	2150# rock is 20% HCL a se pressure,	id, 800 bar	Halliburton rels of fres	treated well h water, 40	using 1000 BPM, 2800#	
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t.	e e	Final open	flow, 2285#	rock pressu	re, 7.2 H, m	ist.	
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Production and Storage Superintendent

WW-2A (Rev. 6-07)

depprivacyofficer@wv.gov

1). Date: 3/31/14

2.) Operator's Well Number

Terra Alta South 7535

State

County

Permit

05/16/2014

3.) API Well No .:

47-077 00164

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

(a) Name	Anita Wiles Fleming	V	Name not operated	
Address	789 Kermit PI		Address	
	Morgantown, WV 26505			
(b) Name			(b) Coal Owner(s) with Declaration	
Address			Name not operated	
			Address	
(c) Name			Name	_
Address	-		Address	
Inspector	John Shockey		(c) Coal Lessee with Declaration	_
Address	1550 Cost Ave Apt 31		Name	
	Stonewood, WV 26301		Address	
Telephone	304-380-2773			
	TO THE PE	RSONS NA	MED ABOVE TAKE NOTICE THAT:	
Included is t	he lease or leases or oth	er continuina	contract or contracts by which I hold the right to extract oil an	d gas
Included is t	he information required I that as required under o ation plat, and accompa Personal Service Certified Mail (Pos	by Chapter 22-6 Chapter 22-6 inying docume (Affidavit attac stmarked post	2, Article 6, Section 8(d) of the Code of West Virginia (see pag of the West Virginia Code I have served copies of this noticents pages 1 through on the above named parties by: ched) tal receipt attached)	
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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

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	HONOGH JOHN TH	7 16505	IAL	USE
3101	Postage	s	\$1.61	0271
	Certified Fee		\$3.30	50
000	Return Receipt Fee (Endorsement Required)		\$2.70	Postmark Here
50 C	Restricted Delivery Fee (Endorsement Required)		\$0.00	
225	Total Postage & Fees	\$	57.61	04/07/2014
7009	Street, Api. No.; or PO Box No. 7 SC City, State, ZIP+4	1 Ke	Rmit	ning PL VIWV 26505
	PS Form 3800, August 2	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	V (000)	See Reverse for Instructions

Received

APR 9 2014

Office of Oil and Gas WV Dept, of Environmental Protection

4707700164W

Operator's Well Number Terra Alta South 7535

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:

Royalty Book/Page Grantor, Lessor, etc. Grantee, Lessee, etc.

Robert P. Wiles, et al

Columbia Gas Transmission, LLC

Storage Lease 1091115

408 / 389-391

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

The permit applicant for the proposed well work addressed in this application hereby 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

Received

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 appr opriate aut hority before the affection activity is initiated.

> Well Operator: By: Its:

Columbia Gas Transmission, LLC James E. Amos

ann

Senior Engineer

05/16/2014

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I Number 47	_ 077		_	00164					

API Number 47 - 077 - 00164
Operator's Well No. Terra Alta South 7535

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

Operator Name	Columbia Gas Transmission, I	тс	OP Code	307032	
Watershed Mad	ison Run		Quadrangle Aurora		
Elevation 2607		County Preston	Distric	t Union	
Description of a	nticipated Pit Waste: no ea	arthen pit to be utilized			
Do you anticipa	te using more than 5,000 bl	bls of water to comple	ete the proposed well work?	Yes No _X	
Will a synthetic	liner be used in the pit? N	A Ii	f so, what mil.?		10 .
Proposed Dispos	Land Application X Underground In Reuse (at API N Off Site Dispose X Other (Explain	Number	ete the proposed well work? f so, what mil.? Number 34-155-2-3794, 34-155 -9 for disposal location) nent facility, Belpre, OH	-2-3795, 34-119-2 -8 776	4/4/14
-If oil be Additives to be Will closed loop Drill cuttings dis -If left	n anticipated for this well? based, what type? Syntheticused? based? polymer viscosifier, Nacosystem be used? yes sposal method? Leave in prince prin	c, petroleum, etc	offsite, etc. landfill used? Cement, lime, sawdust		
on August 1, 20 provisions of th law or regulation I certif application for obtaining the ir penalties for sub Company Offici	05, by the Office of Oil and e permit are enforceable be not can lead to enforcement a y under penalty of law then and all attachments the information, I believe that comitting false information, ial Signature	d Gas of the West Vir y law. Violations of action. at I have personally reto and that, based the information is tr including the possibil	examined and am familiar value, accurate, and complete.	nental Protection. I un general permit and/or with the information s dividuals immediately I am aware that the	nderstand that the other applicable submitted on this responsible for
Company Offici	ial Title Senior Engineer			Office	of Oil and Cas
Subscribed and My commission	sworn before me this_S Naic Clerk expires_3/22/2	3/st_day of_	March No	20 Array Publication	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGIN MARY MARIE: CLEND COLUMBIA GAS TRANSMISSIC CORP. RR 2 BOX 138 SANDVILLE, WY 25275 by commission surviva March 2

	LEGEND	
Property Boundary	Diversion Levelen LII	
Road = = = = = = = = = = = = = = = = = = =	Spring —	
Existing Fence — 🗴 — 🗶 — 💢 —	Wet Spot	
Planned Fence / / /	Drain Pipe with size in inches	
Stream	Waterway \longleftrightarrow	\Leftrightarrow \Leftrightarrow
Open Ditch	Cross Drain	
Rock #35883	Artificial Filter Strip XXX	
North N	Pit: cut walls	WHE.
Buildings	Pit: compacted fill walls	France
Water wells	Area for Land Application of F	Ne Waste
Drill site	<u> </u>	
Proposed Revegetation Treatment: Acres Disturbed < 0.5	Prevegetation pl	H 6
Lime 2 Tons/acre or to correct to pH	6.5	
500		
· · · · · · · · · · · · · · · · · · ·	/acre (500 lbs minimum)	
Mulch 2 Tons/a	cre	
See	d Mixtures	
Area I		ea II
Seed Type lbs/acre	Seed Type	lbs/acre
Orchard Grass 20	Orchard Grass	
Ledino Clover 10	Ledino Clover	10
Annual Rye 20	Annual Rye	20
Attach: Drawing(s) of road, location,pit and proposed area for land app Photocopied section of involved 7.5' topographic sheet.	lication.	
Plan Approved by: Marches		. Received
Comments: Seed mixture may be modified	at landowners reques	
Scel & Mulest AS SOON	ASPOSSIBLE.	APR 9 2014
Title: INSpector	Date: 4/4/14	Office of Oil and Gas WV Bept. of Environmental Protection
Field Reviewed? () Yes () No	





feet.



Received

Office of Oil and Gas.

WV DEP Reclamation Plan

Existing Terra Alta South storage well 7535

- minor grading
- surface material (ie. stone) to be utilized as needed for equipment stability
- Best Management Practices to be utilized per WV DEP

AURORA QUADRANGLE WEST VIRGINIA TOPOGRAPHIC SERIES



