

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

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

Thursday, May 13, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

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

Re: Permit approval for 7415 47-077-00106-00-00

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

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

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

5

Operator's Well Number: 7415

Farm Name: LEWIS, R. L.

U.S. WELL NUMBER: 47-077-00106-00-00

Vertical Plugging Date Issued: 5/13/2021

工

PERMIT CONDITIONS

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

CONDITIONS

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

WW-4B Rev. 2/01

1) Date 12/24	, 2020
2) Operator's	
Well No. Terra Alta 74	15
3) API Well No. 47-	077. — 00106

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

EX	1094 foot	Watershed Saltlick Creek
5)	Location: Elevation 1984 feet District Portland	County Preston Quadrangle Terra Alta
	DISTIFUT TOTAL TOT	Quadrangle
6)	Well Operator Columbia Gas Transmission LLC	7) Designated Agent James Amos
	Address 1700 MacCorklle SE	Address 48 Columbia Gas Road
	Charleston, WV 25325	Sandyville, WV 25275
8)	Oil and Gas Inspector to be notified Name Gayne Knitowski	9) Plugging Contractor Name Contractor Services Inc.
	Address PO Box 108	Address 929 Charleston Road
	Gormania, WV 26720	Spencer, WV 25276
	Refer to enclosed: 1) Well job plan. 2) Prior to P&A wellbore schematic.	ner of plugging this well is as follows:
	1) Well job plan.	
	1) Well job plan. 2) Prior to P&A wellbore schematic.	RECEIVED Office of Oil and Gas
	1) Well job plan. 2) Prior to P&A wellbore schematic.	
	1) Well job plan. 2) Prior to P&A wellbore schematic.	RECEIVED Office of Oil and Gas

WELL JOB PLAN Objective: Plug and Ab		gineering & Tec	hnology				JOB PREPARED: 12/21/2020 PROFILE UPDATE:
TITLE: Plug and A						WORK TYPE:	WR
FIELD: Terra Alta		WELL:					
STATE: WV		SHL (Lat/ Long				API:	
DIST:	I as luminus	BHL (Lat/Long)		DEF	2711 (6)	CNTY:	Oriskany
EXISTING TUBULAR	OD WEIGHT		TUDEAD	TOP	PTH (ft) BOTTOM	FORMATION:	See below.
CONFIGURATION	(inches) (PPF)	GRADE	THREAD	109	BOTTOM	DEPTH: PAY:	ELEVATIONS
Conductor Surface						TD:	TMG:
Intermediate1						PBTD:	KB-RF:
Intermediate2						KB-GL:	GL:
Production						CSG DEPT	H WELLBORE SCHEMATIC
Tubing		1					
Perforations							
Perforations						4 194 0	101 PM 0 6
Perforations						470	77001066
Wellhead							100,
D.H. EQUIPMENT			TYPE		DEPTH (ft)	_	
PA	CKER INFO: Upper				1-25	_	
	Lower					4	
						_	
NIPPLE PRO	OFILE INFO: Upper					4	
	Lower					4	
	CCCV INFO.					-	
CEMENT INFO	SSSV INFO:				TOC (61)	-	
CEMENTINFO					TOC (ft)	4	
						-	
						-	
						-	
						-	
MISC INFORMATION						-	
							RECEIVED Office of Oil and Gas
							FEB - 2 2021
							WV Department of Environmental Protection
PROPOSED YEAR:	2000	ERCB PERMIT F	REQD:	YES	NO_X_	(Internal) PDS Required:	YES NO
PREPARED BY:	2020	DT. APPLIED: REVIEWED BY:		ISSUED:		APPROVED:	rable Signature
PREP DATE:	Jim Amos 12/21/2020	Hear and A				James Amo:	
	1212112020						33aa62d7-b683-404d-8328-f042f2e33502

tive. P	lug and Ahandan						LAST PROFILE UPDATE	:
TLE:	Plug and Abandon Plug and Abandon					WORK TYP	E: WR	
ELD:	Terra Alta		WELL:	7415		11.51(1.11)		
TAT:	WV	SHL (Lat/		0	0	A	.PI: 0	
WP:	0	BHL (Lat/	Long):	0	0	CN.	TY: 0	
	BHA SCHEMATIC	NO.	37.			ESCRIPTION		LENGTH (ft)
						A 19	0 00 00 0 1 0	67
						4.1	ALLANTO	0,
								1
								4
			-					0.0
								1
								1
								4
					_			
								-
								-
								mente (SE)
							Offi	ce of Oil and
							Ulli	000.
							E	RECEIVED to of Oil and G
						1	1	LU 4
								W Department ronmental Prot
							Envi	ronmental Prof
							Clivi	

WELL JOB PLAN	Well Engineering & Technology	ogy	PAGE 3	DATE JOB PREPARED:	12/21/2020
Objective: Plug and Abandon				LAST PROFILE UPDATE:	
TITLE: Plug and Abandon			WORK TYPE:	WR	
FIELD: Terra Alta	WELL: 7415				
STAT: WV	SHL (Lat/Long): 0	0	API:	0	
TWP: 0	BHL (Lat/Long): 0	0	CNTY:	0	
		PROCEDURE			

Note All cement used will be Class A. slurry weight 15.6ppg, slurry yield I 18 cuft/sk. All spacers will be 6% Bentonite gel

- Obtain State plugging permit, FERC authorization, EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
- Notify landowner.
- 3 Obtain General Work Permit and Wellsite Review & Turnover Form from Operations.
- 4 Notify environmental inspector prior to beginning work.
- 5 Notify State O&G inspector prior to beginning work.
- 6 Disconnect well line.
- 7 Install ECD's per EM&CP.
- 8 Prepare access road and well site.
- 9 Document and report to WET engineer the casing and annular pressures.
- 10 Blow down all annuli and replace fittings as necessary. Leave annuli open to atmosphere for monitoring.
- 11 Load/top 7x13 annuli with FW. Document volumes.
- 12 Kill well with viscosified fluid. After well is dead spot 10 bbl LCM pill on bottom.
- 13 Dig around base of wellhead to uncover casing tops and remove cement if present.
- 14 MIRU service rig
- 15 Remove welhead equipment down to top of tubing spool.
- 16 Screw in 2-3/8" nipple with full port valve into top of hanger.
- 17 Strip over and NU 7-1/16" Cameron 5K BOPE (blind/shear + pipe + annular). Need kill and choke outlets below blind/shear.
- 18 Function and pressure test BOPE to low (250 psig) and high (3000 psig).
- 19 Unseat hanger, PU and remove hanger, and pull tubing wash to TD.
- 20 Obtain CBL inside 4-1/2" liner from TD to top of liner at 5392'. Send digital copy of CBL to WET engineer.
- 21 Obtain CBL inside 7" casing from top of liner to surface keep hole full. Send digital copy of CBL to WET engineer and consult on next Steps.
 - * Note there is a 1" x 18" long baller that was lost in well
- 22 RIH with 2-3/8" work string w/ cut-lip shoe, wash to TD, and install balanced cement plug from TD to 5000'.
- 23 PU above cement top, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC.
- 24 WOC minimum 8 hours. RIH and tag cement. If cement top is deeper than 4290' then spot a second balanced cmt plug.
- 25 Install 7" CIDBP above cement plug.
- 26 Top off 7" with kill fluid and perform 500 psig pressure test to verify integrity of BP.
 - *The following Steps assume adequate sealing cement behind the 7" csg between 1500 and 5400" If not then will need to sqz cmt.
- 27 RIH with 2-3/8" work string and install balanced cement plug from BP to 4000' and 6% gel from 4000 2100'.
- 28 TOOH
- 29 Release all annular pressure and top off.
- 30 ND BOPE and tubing spool.
- 31 Weld pulling nipple on 7" csg and pull seals and slips.
- 32 NU 11" spool (with kill/choke outlets) and 11" annular BOP.
- 33 Function and attempt to pressure test BOPE to low (250 psig) and high (1500 psig). Report results to WET engineer.
- 34 Wireline freepoint and cut/pull all 7" casing that is free.
- 35 TIH with work string and install balanced cement plugs from 2100' to 100' above top of 7" csg stub.
- 36 POOH to above cement, reverse circulate to clean tubulars, and WOC.
- 37 WOC minimum 4 hours. RIH and tag cement. If cement top is below 7" csg stub then install second cement plug.
- 38 TOOH and ND BOPE and remainder of wellhead.
- 39 Freepoint and cut/pull all 13-3/8" casing that is free.
- 40 TIH with work string and install balanced cement plug from top of last cement plug to surface.
- 41 Grout all annuli as deep as possible.
- 42 RDMO service rig.
- 43 Erect monument per state regulations. Reclaim location and lease road.
- 44 P&A complete.

REGEIVED Office of Oil and Gas

47077001068

FEB - 2 2021

VA Department of

PREPARED BY:	Jim Amos	REVIEWED BY:	APPROVED: Lyther 1/21/2)	
PREP DATE:	12/21/2020		Coro Tit	

WELL JOB PLAN	Well Engineering	& Technolo	ogy	PAGE 4	DATE JOB PREPARED:	12/21/2020
Objective: Plug and Abandon					LAST PROFILE UPDATE:	
TITLE: Plug and Abandon				WORK TYPE:	WR	
FIELD: Terra Alta	WELL:	7415				
STAT: WV	SHL (Lat/Long):	0	0	API:	0	
TWP: 0	BHL (Lat/Long):	0	0	CNTY:	0	
		DDOCEDI	IDE CONTINUE	D		

4707700106P

RECEIVED Office of Oil and Gas

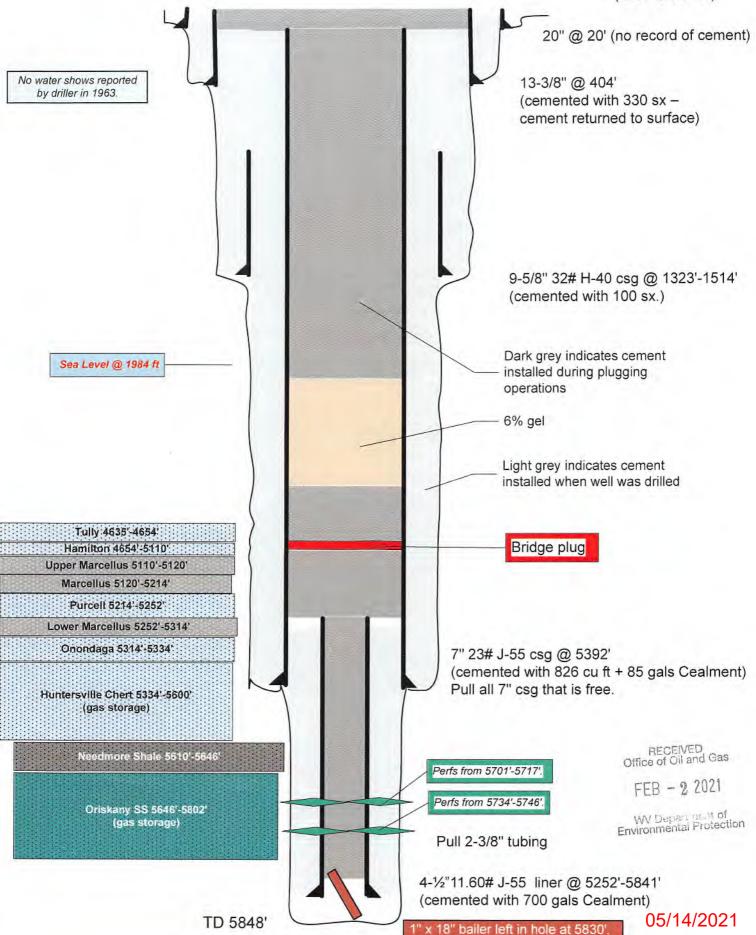
FEB - 2 2021

WV Department of Environmental Protection

PREPARED BY:	Jim Amos	REVIEWED BY:	APPROVED: (FOR) //	1/21
PREP DATE:	12/21/2020		210	/

4707700106P Terra Alta 7415 Proposed P&A

(as of 12/9/2020)





STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

Kingwood Quadrangle -

Pres. 106

WELL RECORD

Oil or Gas Well Gaas

Permit No. Fr	es. 106		W W Amerikan Sam	KECOKD		Oil or	Gas Well Gas	
A4.7:	ntie Seab	oard Corpora	tion				(KIN	· ·
Company				Casing and	Used in Drilling	Left in Well	Packers	
Address Elk:	Lewis Et	Ila ATTATUTE	Acres 5	Tubing	Drining	Well		
		al: Creak	Acres	~!				
Location (waters)	NG.LU LL	CW ALGAY	3000 05	Size	901	e e e e		
Well No.	44.2	7h	Elev. 1902.35	20"	20'	201	Kind of Packer	r
District	Land	_County_ Bres	son	13-3/8 H-4		4041		
The surface of tra	ct is owned in	fee by Roy L.	Lewis Et Ux	17 9-5/8	1514'6"	225	Size of	
		Address Terra	Alta, W. Va.	3995 71	53891	53891		
Mineral rights are	e owned by R	oy L. Lewis,	Et Ux	858 43	5891	5891	Depth set	
		Address Terra	Alta, W. Va.	жарор <u>2-3/</u>	\$ 52081	52081		
Orilling commence	ed April	7. 1963		ж 1 ¹ "	608	6081	Perf. top	
•		-		2			Perf. bottom	
-							Perf. top	
With							_	
			T 1				Perf. bottom	
-			Inch			<u> </u>		A748-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-
/				CASING CEM	ENTED	_SIZE	_No. Ft	г
olume			Cu. Ft.		SEE REVE	e: E		
			hrs.					
J11			_bbls., 1st 24 hrs.				_FEETI	
WELL ACIDIZEI	SEE RI	EVERSE		FEE	rINC	HES	_FEETl	INCE
				FEE	INC	HES	FEETI	INCH
WELL FRACTUR	RED							
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remar	rks
tstone & hale ly Lime tstone & hale mdaga Lime tstone & hale mdaga Lime rt le skany derberg Lime al Depth			0 4634 4655 5314 5334 5398 5454 5470 5604 5643 5802	4634 4655 5314 5334 5398 5454 5470 5604 5643 5802 5841				
							RECEIVED Office of Piland FEB - 2 200 Wy Dec. Environmental Prof	21
		,					Environmentario	
	l l		i	į.		1	1	

						4707	700106P
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	Remarks
Logging:							
Gamma I	av:	5832	to surface	5-9-63	Schlumberge) Pr	
Tempera			to 2000'	5-9-63		,	
	on Density		to 5358'	5-9-63			
Inducti			to 5357'	5-9-63			
1	ay-Correla		to 52001		4McCullough		
Casing & Car			ova e v	7.07	6 79 78	1 0 (0 1	
20" กิอส า ว _3/ผย	d Casing (eonductor) - H-40 casing	20 Driven	into 17g" di	rilled hole .	to surface	ot cemented.
S8	cks neat d	ement, sac	ks Ca Cl - 4	-9-63 - Dow	dil Gemenoud	Ditt 1400	
9-5/8"	32#/Ft.,	H-40 casing	- 1514'6" se	t at 1512'	(KB). Cement		
ci	ass A Neat	cement with	2% Ca C1 -	4-15-63 - De	owell. Back	d off 9-5/8	Lit and
Ri	ght Collar	and pulled	1323', 32#/1	t., H-40 car	sing. Left 4	251 9-5/8"	casing in
we	11 - 4-28-	63. Top led	t and right	nipple left	in well rol	led out (Fla	ted) 5-2-63
7" , 23#	/Ft., J-55	casing - 53	89' set at	358' (KB).	Cemented to	surface wit	826 cu. ft.
							- 5-4-63 - Dowel
4章" 114	6 #/Ft., J	-55 casing I	iner - 589'	set from 58/	48' to 5250'	(KB) Ceaent	ed with 700
		nt" (Latex 0					1 1 2
2-3/8"	4.6#/Ft.	J-55 Tubing	5208', and]12" 2.75#/F1	t., J-55 Tub:	ne, 608' Su	pended from
n a	tional H-1	. tubing han $arepsilon$	er. 5-11-03	1			
Perforations	•						
Origkan	r L Hold	s/Ft., 5,701	1_5 7171 /	7311-5 716	_ E_0_63	MaCullous!	
Or Thursday	he w mark	13/10.5 79/OI		79 ()41 29 (440)	- CO-V-C	Macarroag.	
Stimulation:							
Oriskan	v: 1.000	gal 15% Supe	r Mud Acid -	5-10-63 -	owell		
		gal 1%Retar	dedHcl: 5.00	O gal 15 R	emlar Hel -	7-11-63 - 0	well
	, ,,,	S	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Canada marina		, ,	7 T
Production:							
	running &	cementing Li	ner - 49/10	W-2" =295 mc	f		
After P	erforating	- Not teste	d				
After A	cid treatm	ent					
Final r	ock pressu	re					
Final S	hut in Dat	et					
							-
			,				
							. *
		İ	,	No pp			
	İ	. [,	
	1	Ì					
	ļ			,			
							DECEIVED
						Off	RECEIVED ice of Oil and Gas
		ł				1	
					1	ŧ	EB - 2 2021
				Ì	1		in marketimers of
					1	Envi	W Dapartiner: of OS) Phall Brokection
							OUI ITIZUZ I

APPROVED Atlantic Seaboard Corp., Owner

By Homefferd Supp.

(Title)

Form OG-2

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS DIVISION

WELL DRI	LLING PERMI	[T	
		Permit N	PRES-106
	APRIL 5,		, ₁₉ <u>63</u>
TO ATLANTIC SEABOARD CORPORATION Well Operator	LOCATION OF WELL	:	
P. O. BOX 1273 Street	PORTLAND	•	DISTRICT
CHARLESTON 25, WEST VIRGINIA	PRESTON		COUNTY
	WELL No. X-76-7		ATION 1902 35"
	ROY L. LEWI	5	FARM
The Department of Mines received your Notice an	ACRESd Plat of the Well describe		26th day of
MARCH , 19 63 , show	ing proposed location for dr	illing an oil or gas	well.
Ten days having expired since the receipt of Notice coal operators, or the Department of Mines, the location accordance with the several provisions of Chapter 22, Coand more particularly as indicated on the Plat on file with	n is approved and permiss ode of 1931, the Well to be	sion is granted you	u to drill strictly in
This Permit is assignable either by separate instrume right to drill therefore at said location, but no such assignifiled with the Department of Mines a certified, or sworn such assignment was made.	nment shall entitle the assic	onee to drill therea	it until he shall have
In case the well is not commenced within four more further force or effect.	nths from the above date,	this Permit shall e	expire and beacENED Office of Oil and Gas
	LEONARD J.		FEB - 2 2021
	DIRECTOR		Department of Mines WW Department of Environmental Protection

EXECUTIVE SECRETARY-OIL AND GAS PLYISIO

00106

WW-4A Revised 6-07

1) Date:	12/24/2020	
2) Operato	or's Well Number	
Terra Alta 7415		

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

3) API Well No.: 47 -

Surface Ow	ner(s) to be served:	3) (a) Coal Operato	L			
(a) Name	Kelly Marjorie Ann Grimm		Name	Not operated.			
Address	182 Lewis Lane		Address				
	Terra Alta, WV 26764						
(b) Name			(b) Coal O	wner(s) with Decl	aration		
Address			Name				
	-		Address				
(c) Name			Name	,			
Address			Address				
6) Inspector	Gayne Knitowski		(c) Coal Le	ssee with Declara	ation	_	
Address	PO Box 108		Name	ALL STATES AND ALL ST	A-1. 1-104		
0.341045.3134	Gormania, WV 26720		Address	-			
	304.546.8171						
(1) The	ERSONS NAMED A application to Plug and Abar its and the plugging work ore	don a Well on F ler; and	orm WW-4B, which				
(1) The well (2) The The reason However, Take notic accompany Protection the Applic	application to Plug and Abar	don a Well on F ler; and g the well locatio that you have rightion at all. West Virginia Code ig and abandon a weation described on iled by registered	orm WW-4B, which n on Form WW-6. hts regarding the applie t, the undersigned well with the Chief of the the attached Applicator certified mail or de	a sets out the parties cation which are summa operator proposes to file to Office of Oil and Gas.	involved in the arized in the instruction or has filed this west Virginia Deattached Form WV	work and actions on the Notice and appartment of W-6. Copies	describes the reverses side. Application and Environmental s of this Notice,
(1) The well (2) The The reason However, Take notic accompany Protection the Applic	application to Plug and Abar its and the plugging work ord plat (surveyor's map) showing you received these documents is you are not required to take any accept that under Chapter 22-6 of the ving documents for a permit to plu with respect to the well at the location, and the plat have been manumstances) on or before the day of	don a Well on F ler; and g the well locatio that you have rightion at all. West Virginia Code ag and abandon a we ation described on iled by registered f mailing or deliver	orm WW-4B, which n on Form WW-6. hts regarding the applie t, the undersigned well with the Chief of the the attached Applicator certified mail or de	cation which are summa operator proposes to file the Office of Oil and Gas, ion and depicted on the	involved in the arized in the instruction or has filed this west Virginia Deattached Form WV	work and actions on the Notice and appartment of W-6. Copies	describes the reverses side. Application and Environmental s of this Notice,
(1) The well (2) The The reason However, Take notic accompany Protection the Applic	application to Plug and Abar its and the plugging work ord plat (surveyor's map) showing you received these documents is you are not required to take any accept that under Chapter 22-6 of the ving documents for a permit to plu with respect to the well at the location, and the plat have been manumstances) on or before the day of	don a Well on F ler; and g the well locatio that you have rightion at all. West Virginia Code ig and abandon a weation described on iled by registered f mailing or deliver	orm WW-4B, which n on Form WW-6. hts regarding the applies t, the undersigned well with the Chief of the the attached Applicate or certified mail or de ty to the Chief.	cation which are summa operator proposes to file the Office of Oil and Gas, ion and depicted on the	involved in the arized in the instruction or has filed this west Virginia Deattached Form WV	work and notice and of epartment of W-6. Copies above (or by	describes the reverses side. Application and Environmental s of this Notice,
(1) The well (2) The The reason However, Take notic accompany Protection the Applic	application to Plug and Abar its and the plugging work or plat (surveyor's map) showing a you received these documents is you are not required to take any accept that under Chapter 22-6 of the ving documents for a permit to plu, with respect to the well at the location, and the plat have been maximum tances) on or before the day of	don a Well on Fler; and g the well locatio that you have rightion at all. West Virginia Code g and abandon a wation described on iled by registered f mailing or delivered the control of	orm WW-4B, which n on Form WW-6. hts regarding the appliance, the undersigned well with the Chief of the attached Applicate or certified mail or de- y to the Chief. Columbia Gas Trant James Amos	cation which are summa operator proposes to file the Office of Oil and Gas, ion and depicted on the	involved in the arized in the instruction of the in	work and notions on the Notice and A epartment of W-6. Copies above (or by	describes the reverses side. Application and Environmental sof this Notice, publication in RECEIVED co of Oil and
(1) The well (2) The The reason However, Take notic accompany Protection the Applic	application to Plug and Abar its and the plugging work ord plat (surveyor's map) showing you received these documents is you are not required to take any act that under Chapter 22-6 of the ving documents for a permit to plu with respect to the well at the location, and the plat have been made numstances) on or before the day of the terms of the terms of the day of the terms of th	don a Well on Fler; and g the well locatio that you have rightion at all. West Virginia Code g and abandon a wation described on iled by registered f mailing or delivered the control of	orm WW-4B, which n on Form WW-6. hts regarding the appliance, the undersigned well with the Chief of the attached Applicate or certified mail or de- y to the Chief. Columbia Gas Trant James Amos	cation which are summa operator proposes to file the Office of Oil and Gas- tion and depicted on the selivered by hand to the particle.	involved in the arized in the instruction of the in	work and notions on the Notice and A epartment of W-6. Copies above (or by	describes the reverses side. Application and Environmental s of this Notice, publication in
(1) The well (2) The The reason However, Take notic accompany Protection the Applic	application to Plug and Abar its and the plugging work ord plat (surveyor's map) showing you received these documents is you are not required to take any act that under Chapter 22-6 of the ving documents for a permit to plu with respect to the well at the location, and the plat have been made numstances) on or before the day of the terms of the terms of the day of the terms of th	don a Well on F ler; and g the well locatio that you have rightion at all. West Virginia Code g and abandon a weation described on iled by registered of f mailing or deliver ell Operator 7: 6:	orm WW-4B, which n on Form WW-6. Its regarding the appliance, the undersigned well with the Chief of the the attached Applicator certified mail or de- ty to the Chief. Columbia Gas Tran- James Amos Team Leader - Well	cation which are summa operator proposes to file of Office of Oil and Gas, ion and depicted on the solivered by hand to the particular of the solivered by hand to the particular office.	involved in the arized in the instruction of the in	work and notice and apartment of W-6. Copies above (or by	describes the reverses side. Application and Environmental sof this Notice, publication in RECEIVED co of Oil and

Oil and Gas Privacy Notice

My Commission Expires

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

day of Februare

Notary

413 FITZHUGH STREET, RA

Columbia Gas Transmission, LLC

1700 MacCorkle Ave., SE, Charleston, WV, USA 25314



December 24, 2020

Kelly Marjorie Ann Grimm 182 Lewis Lane Terra Alta, WV 26764 4707700106 4707700106

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to plug and abandon an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Terra Alta 7415 (API 47–077–00106).

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

RECEIVED
Office of Oil and Gas

FEB - 2 2021

WV Department of Environmental Protection

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON	DELIVERY
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: KELLY MARJORIE ANN GRUMM 18 Z LEWIS LN TERRA ALTA, WV 26764	A. Signature X / Log S B. Received by (Printed Name) D. Is delivery address different from If YES, enter delivery address 4 7 0 7 7	below: No
9590 9402 3688 7335 3537 34	3. Service Type Adult Signature Adult Signature Certified Mall® Certified Mall Restricted Delivery Collect on Delivery Collect on Delivery Collect on Delivery	☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Return Receipt for Merchandise☐ Signature Confirmation™
2. Article Number Gransfer from service John 7017 0660 0001 0359 570	☐ Collect on Delivery Restricted Delivery	

SURFACE OWNER WAIVER

Operator's Well Number

Terra Alta 7415

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

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

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

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

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

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

The Chief has the power to deny or condition a well work permit based on comments on the following RECEIVED
Office of Oil and Gas 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:

 The proposed well work fails to protect fresh water sources or supplies;
 The applicant has committed a substantial violation of a previous permit or a substantial violation or a previous permit or a substantial violation or a previous permit or a pre or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

I further state that I have no ol	bjection to th	e planned w	work described in these materials, and I have no
objection to a permit being issued on thos	se materials.		
FOR EXECUTION BY A NATURAL PER	RSON		FOR EXECUTION BY A CORPORATION,
ETC.			•
	Date	Name	e
Signature		Ву	
		Its	Date

FEB - 2 2021

COAL NOT OPERATED

API No.	47-077-00106	
Farm Name		
Well No.	Terra Alta 7415	

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 operatorhas examined this proposed plugging work of done at this location, provided, the well op Virginia Code and the governing regulations.	order. The undersigned has complied with	
Date:	By:	
	Its	
		RECEIVED Office of Oil and Gas

WW Department of Environmental Protection

FEB - 2 2021

05/14/2021

WW-9 (5/16)

API Number 47 - 077	_00106
Operator's Well No.	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Columbia Gas Transmission	OP Code 307032
Watershed (HUC 10) Saltlick Creek	Quadrangle Terra Alta
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 V No No	
	sh water, brine, cement returns, bentonite gel
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? 20
Proposed Disposal Method For Treated Pit Wast	es;
Land Application (if selected p	rovide a completed form WW-9-GPP)
Underground Injection (UIC F	Permit Number 34-119-28776-, 34-167-23862
Off Site Disposal (Supply form	n WW-9 for disposal location) ter Services, Station W1 Ronco WTP, Masontown, PA - Permit 2608201
Will closed loop system be used? If so, describe: no	
Drilling medium anticipated for this well (vertical and hor	rizontal)? Air, freshwater, oil based, etc. N/A
-If oil based, what type? Synthetic, petroleum, et	te
Additives to be used in drilling medium?	
Drill cuttings disposal method? Leave in pit, landfill, reme	oved offsite, etc. N/A
-If left in pit and plan to solidify what medium w	ill be used? (cement, lime, sawdust) subsoils
	and Cas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of the Wei provisions of the permit are enforceable by law. Violations or regulation can lead to enforcement action. I certify under penalty of law that I have personant application form and all attachments thereto and that base	and conditions of the GENERAL WATER POLLUTION PERMIT issued st Virginia Department of Environmental Protection. I understand that the s of any term or condition of the general permit and/or other applicable law onally examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for o btaining courate, and complete. I am aware that there are significant penalties for imprisonment.
Company Official Signature	FEB - 2 2021
Company Official (Typed Name) James E. Amos	WV Department of
Company Official Title Team Leader, Well Engineering	ng & Technology Environmental Protection
Subscribed and swom before me this st day My commission expires Color Co	Notary Policy STATE OF WEST VIRGINIA MICHAEL D MCCLUNG 413 FITZHUGH STREET, RAVENSWOOD, WY 28164 MY COMMISSION EXPIRES JUNE 19, 2022

Operator's Well No._____

Strainer Strate School Services	atment: Acres Disturbed <	1.0 Preveg etation pH 6.5	
Lime 2	Tons/acre or to correc	et to pH 7	
Fertilizer type 10	-10-10		
Fertilizer amount	600	lbs/acre	
Mulch 2		Tons/acre	
		Seed Mixtures	
Т	Cemporary	Permanent	
Seed Type	lbs/acre	Seed Type lbs/	acre
Annual Rye	40	Orchard Grass and/or Tall Fescue	29
		Birdsfoot trefoil (empire)	9
,		Annual Rye	12
Attach: Maps(s) of road, location, porovided). If water from the L, W), and area in acres, o	pit and proposed area for land e pit will be land applied, pro f the land application area.	d application (unless engineered plans including this info ovide water volume, include dimensions (L, W, D) of the	have been
Attach: Maps(s) of road, location, porovided). If water from the L, W), and area in acres, or Photocopied section of involved by:	oit and proposed area for land e pit will be land applied, pro	d application (unless engineered plans including this info ovide water volume, include dimensions (L, W, D) of the	have been e pit, and dimensions
Attach: Maps(s) of road, location, provided). If water from the (L, W), and area in acres, or Photocopied section of involved by:	pit and proposed area for land e pit will be land applied, pro f the land application area.	d application (unless engineered plans including this info ovide water volume, include dimensions (L, W, D) of the	have been e pit, and dimensions
Attach: Maps(s) of road, location, provided). If water from the L, W), and area in acres, or Photocopied section of involved by:	pit and proposed area for land e pit will be land applied, prof the land application area. Dived 7.5' topographic sheet.	d application (unless engineered plans including this info ovide water volume, include dimensions (L, W, D) of the	have been e pit, and dimensions
Attach: Maps(s) of road, location, porovided). If water from the L, W), and area in acres, or Photocopied section of involved by:	pit and proposed area for land e pit will be land applied, prof the land application area. Dived 7.5' topographic sheet.	d application (unless engineered plans including this info ovide water volume, include dimensions (L, W, D) of the	have been e pit, and dimensions
Attach: Maps(s) of road, location, porovided). If water from the L, W), and area in acres, or Photocopied section of involved by:	pit and proposed area for land e pit will be land applied, prof the land application area. Dived 7.5' topographic sheet.	d application (unless engineered plans including this info ovide water volume, include dimensions (L, W, D) of the	have been e pit, and dimensions
Attach: Maps(s) of road, location, porovided). If water from the L, W), and area in acres, or Photocopied section of involved by:	pit and proposed area for land e pit will be land applied, prof the land application area. Dived 7.5' topographic sheet.	d application (unless engineered plans including this info ovide water volume, include dimensions (L, W, D) of the	RECEIVED Office of Oil and
Attach: Maps(s) of road, location, provided). If water from the (L, W), and area in acres, or Photocopied section of involved Approved by:	pit and proposed area for land e pit will be land applied, prof the land application area. Dived 7.5' topographic sheet.	d application (unless engineered plans including this info ovide water volume, include dimensions (L, W, D) of the	have been e pit, and dimensions

WW-9- GPP Rev. 5/16

Page	of 2
API Number 47 - 077	- 00106
Operator's Well No.	

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

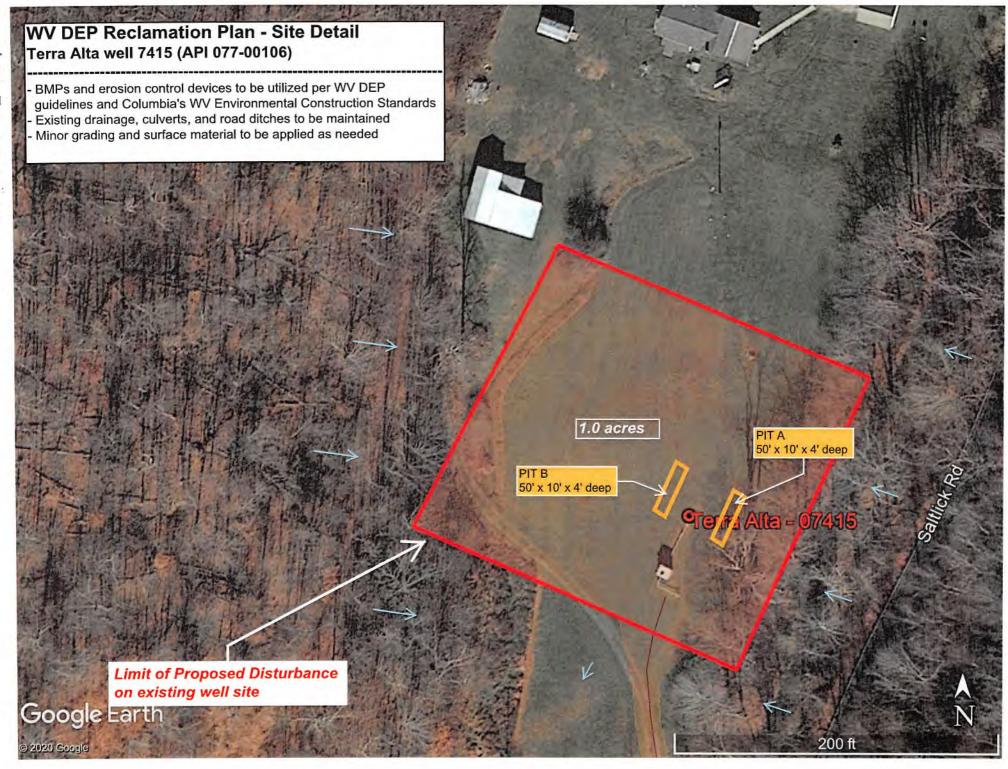
GROUNDWATER PROTECTION PLAN

Operator Name: Columbia Gas Transmission LLC	Quad: Terra Alta
Watershed (HUC 10); Saltlick Creek	Quad: Terra Aita
arm Name:	
 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 o site, but located within secondary containment. Accidental release from well fluids and spills from co of contaminate to groundwater.	
All accumulated fluids to be hauled off site to UIC di	sposal facility.
Describe procedures and equipment used to protect groundwater q	uality from the list of potential contaminant sources above.
All construction equipment will be inspected daily for	r leaks. Spill kits will be on site.
. List the closest water body, distance to closest water body, and discharge area.	distance from closest Well Head Protection Area to the
Saltlick Creek - 0.02 miles. Terra Alta Water Works	(WV3303917) - 1.72 miles.
Saltlick Creek - 0.02 miles. Terra Alta Water Works Summarize all activities at your facility that are already regulated	(WV3303917) - 1.72 miles. for groundwater protection.
Saltlick Creek - 0.02 miles. Terra Alta Water Works Summarize all activities at your facility that are already regulated	(WV3303917) - 1.72 miles.
Saltlick Creek - 0.02 miles. Terra Alta Water Works	(WV3303917) - 1.72 miles. for groundwater protection.

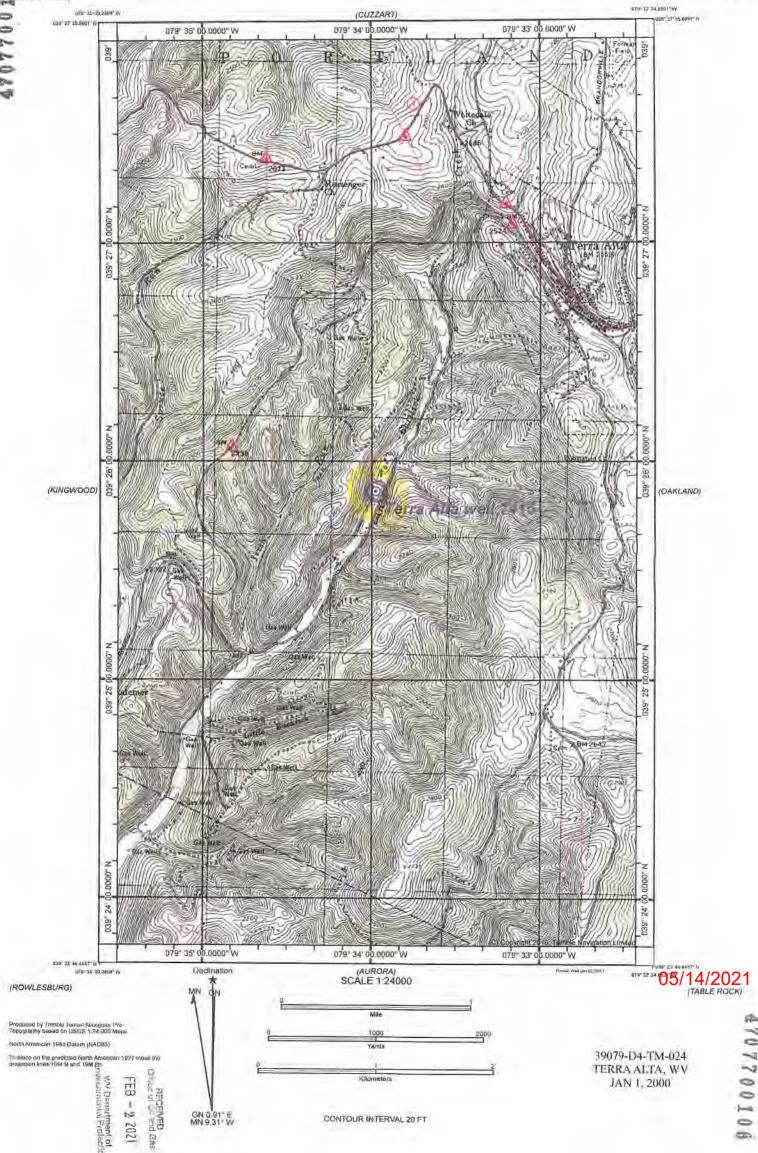
WW-9- GPP Rev. 5/16

Pag	e 2 of 2
API Number 47 - 077	- 00106
Operator's Wall No	

N/A	
6. Provide a statement that no waste material will be used for deicing or fill material on the property	
No waste material will be used for deicing or fill material on the property.	
7. Describe the groundwater protection instruction and training to be provided to the employees. provide direction on how to prevent groundwater contamination.	Job procedures shall
During routine tailgate meetings, groundwater protection will be a topic of dis	scussion.
8. Provide provisions and frequency for inspections of all GPP elements and equipment.	
No fertilizer will be stored on site. Small quantities of fuel, oil, and lubricants site, but located within secondary containment. Construction equipment will for leaks or spills.	will be stored on be inspected daily
Signatura 8	Office of Oil and Ga
Signature:am < Cur	FEB - 2 2021
Date: 1/29/21	WV Department of Environmental Protect







CONTOUR INTERVAL 20 FT

6.891

