

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

Monday, April 10, 2023 WELL WORK PERMIT Vertical / Re-Work

COLUMBIA GAS TRANSMISSION, LLC 1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re:

Permit approval for 7129 47-039-01075-00-00

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

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

James A. Martin

Chief

Operator's Well Number: 7129

Farm Name: ROBERTS, MARK A.

U.S. WELL NUMBER: 47-039-01075-00-00

Vertical Re-Work Date Issued: 4/10/2023

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</u> 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 cement does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACOE). Through this permit, you are hereby being advised to consult with the USACOE regarding this proposed activity.

WW - 2B (Rev. 8/10)

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

1) Well Operat	or: Colur	nbia Gas	Transmission, LL	C 307032	Kanawha	Union	Pocatalico, W
	-			Operator ID	County	District	Quadrangle
2) Operator's V	Vell Numb	oer: Lanha	am 7129		3) Elevation:	670.9	_
4) Well Type: (a) Oil	or Ga	as X			Office of	IVED
(b) If Gas:	Produ	uction / Unc	lerground Sto	rage X	MAR 0	9 2023
			p/ S			1807 1 120	tal Protection
5) Proposed Ta	arget Forn	nation(s)	: Big Lime Feet F		Proposed Tar	rget Depth: _	526
6) Proposed To	otal Depth	1526	Feet F	Formation at I	Proposed Tota	al Depth: Big	Lime
 Approximate Approximate 	e tresh wa e salt wate	iter strata er depths	a depths: 97' FW as 1050' as reported by 0	reported by driller 1 driller 1943	943		
9) Approximate	e coal sea	m depth:	s: None reported b	by driller 1943			•
10) Approxima	te void de	pths,(co	al, Karst, other):	None reported	by driller 1943		
11) Does land	contain co	oal seam	s tributary to acti	ve mine? N	lo		
12) Describe pro	nosed we	ll work ar	nd fracturing meth	ods in detail (a	ttach additiona	al sheets if ne	eded) / / ,
			. Acid stimulate with			-1	M
						new	w/ / 2
casing and equip	ment listed	below are	existing - 2-3/8" tub	oing will be pulle	ed and re-run int	o the well.	3747
13)		C.A	ASING AND TUE	ING PROGR	* existi	ng	
· ·	SPECIFIC			FOOTAGE	INTERVALS	CEME	<u>NT</u>
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu	. Ft.)
Conductor	10.75 *		40.5	32	32		
Fresh Water	8.625 *		24	441	441		
Coal							
Intermediate	7 *		20	1500	1500		
Production	5.5 *		15.5	1502	1502	100 sx / 1	20 ft^3
Tubing	2.375*		4.7	1519	1519		
Liners							
Packers: Kind	d:						
Size							
Dep	ths Set _						4/14/2 023
						U	T/ 17/4U4U

	Obtain HRV									PROFILE UPDATE:	
TITLE		g, re-run tbg							WORK TYPE:	CAPITAL	
FIELD				WELL ID:		10	-81.720302	-	LEASE #: API:	48242 47-039-01075	
STATE	A			SHL (Lat/ Long) BHL (Lat/Long)			-81.720302	+	CNTY:	Kanawha	
DIST/TWP	P: Union	OD	WEIGHT	BHL (LavLong)	30.43090		PTH (ft)		WELLLINE #:	X2W7129	
	GURATION	(inches)	(PPF)	GRADE	THREAD	TOP	ВОТТОМ	FORMA		MISC INFORMATION s	ection
Conductor	PARTY STREET,	(mones)	(.,,,	0,0,02				PAY:		ELEVATION	
Surface		10 3/4	40.5			0	32	TD:	1526	TMG:	
Intermedia	ite	8 5/8	24.0	J-55		0	441	PBTD:		KB-RF:	
Intermedia		7	20.0			0	1500	KB-GL:		GL: 670	
Production	1	5 1/2	15.5		0 1515	0	1502	CSG	DEPTH	WELLBORE SCHI	EMATIC
Tubing		2 3/8	4.7	J-55	8rd EUE	0 tar quido on bttr	1519 *	-		Refer to "Wellbore Di	agram" tah
Tubing Perforation	ne		istoric record	F profile nipple & w	il ellille re-eri	try guide on bitt	11	-		Kerer to Wendore Di	agram tab
renoration	115	None per m	istoric record	Refer to "Wel	Ibore Diagra	am" tab		1			
Wellhead		API 3k, 2-3/	/8 rd wellhea	d connection, 5-1/2			Q tbg head	7			
D.H. EQU	IPMENT				TYPE		DEPTH (ft)				
	PA	CKER INFO:	Upper]			
			Lower					4			
								4		1	
	NIPPLE PRO	JEILE INFO:	200					-			
			Lower					-			
		SSSV INFO:						1			
CEMENTI		0001 1111 01		ALC: U. LOW	LOS PARA		CBL TOC (ft)	1			
10 3/4	No record of	cement]			
8 5/8	No record of	cement]			
7	No record of						-	4			
5 1/2	Cemented wi	th 100 sks					868	4			
								┨			
	ORMATION							1			
REFER	TO WELL SU	IMMARY R	In the second second	BORE DIAGRAM dsheet tabs belo		TC.	(see				
			Spread	usifeet tabs ben) W)						
Kill Fluid	d Calculation			* Note that kill fluid of	calculation tab	s are hidden		7			
	n calculated bo	ttom-hole pre	essure (for re			psig * input					
	m storage field				700	psig * input					
	The state of the s	can be run wh	en well pressu	re is below 650 psi	The state of the s						
Well TD:					13.50	ft TVD * input			Office RECEIVE OF OH OH		
	of 5-1/2" casing ed maximum Bl					ft TVD * input psig * output	Kill Fluid (TOZ)		of Oil	FU nd -	
	density at top o			psi OB			Kill Fluid (TOZ)		AAAA	"Gas	
Tun naid	denoity at top o	Lone @.	100	Jpc. GB	10.01		1>		MAR 0.9 2	00-	
	d depth of BP:					ft TVD * input			WV Departmen	¥23	
	ed maximum Bl					1.25	t Kill Fluid (BP)	E	nvironme partmen		
Kill fluid	density at depth	n of BP @:	100	psi OB	8.43	ppg * outpu	t Kill Fluid (BP)		mental Pro	Of	
				. I	10.0				. 0	ction	
		uired minim		density: 0 ppg (650 psi fie			er of the two				
				765 psi field pre				1			
	need to use	Calcium On	ronde (up te	700 par neid pres	sourc or 11.	o ppg tttti tet	dirementy.	1			
	Current AOF		11,378	MCF/D							
	Top historica	AOF:	41,547	MCF/D							
	Last MVRT:		None availa	ible.							
								4		1	
	SBL:					•	1' (bottom logged) -				
			ooo, partial	866' - 520' and fre	e pipe to sui	iidCe.		4			
PROPOSE	D YEAR:		200	ERCB PERMIT R	EQD:	YES	NO_X_	(Interna	l) PDS Required:	YES NO	
		20	023	DT. APPLIED:		ISSUED:	- 20111				
PREPARE	D BY:	Maria Me	edvedeva	REVIEWED BY:		James A	mas	APPRO	VED:	Brent Criser	
DDED DAT	re.					june u		-			
PREP DAT	(C)	2/10/	/2023								

WELL JOB PLAN	STS Well Engineering & Technology	PAGE 2	DATE JOB PREPARED: 2/10/2023			
Objective: Obtain HRVRT log			LAST PROFILE UPDATE:			
TITLE: Pull tbg, log, re-run tbg		WORK TYPE:	CAPITAL			
FIELD: Lanham	WELL: 7129					
STAT: WV	SHL (Lat/Long): 38.456908 -81.	720302 API:	47-039-01075			
TWP: Union	BHL (Lat/Long): 38.456908 -81.	720302 CNTY:	Kanawha			

NOTE: Sodium Chloride fluid system allows for up to 10 ppg KWF (max field pressure of 650 psi + 100 psi overbalance). With higher field pressure will need to use a Calcium Chloride fluid system to achieve necessary KWF ppg + OB margin. Potassium Bromide for field pressures above 765 psi or 11.5 ppg KWF requirement will be required.

- Obtain EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
- 2 Notify landowner.
- 3 Obtain General Work Permit and Wellsite Review & Turnover Form from Operations.
- 4 Notify Reservoir Engineering & Geosciences (REG) of intent to take well out of service.
- 5 Notify environmental inspector prior to beginning work. If required, notify State/Federal regulatory agencies prior to beginning work.
- 6 Disconnect well line
- 7 Prepare access road and well site. Install ECD's per EM&CP.
- 8 Service all wellhead valves.
- 9 Document and report to WE&T the initial casing and annular pressures.
- 10 Kill well with a solids free brine system based on current field pressure (reference Kill Fluid Calculation section). Monitor well for 1-2 days to determine if well is static. If the well is not static, consult with the WE&T engineer for next steps (may need to pump an LCM pill).
- 11 MIRU service rig.
- 12 Remove tbg valve and bonnet. Spray/pour lubricant around top of tubing mandrel and around lock-down pins. Clean mandrel lift threads and verify thread profile. Screw into mandrel a temporary pup joint and valve for well control.
- 13 NU 7-1/16" 3M gate valve, Cameron double BOP (blind-shear in bottom / 2-3/8" pipes in top), and annular. Pressure test low (250psi) and high (1100 psi based on the maximum calculated BHP).
- 14 Unseat mandrel and pull 2-3/8" tubing. Keep hole full while tripping tubing out by circulating over the top of the well for well control.
- 15 Evaluate tubing condition, for tubing to be rerun back in the well.
- 16 MIRU Baker Atlas Logging. Run guage ring and HRVRT. Request 1-day turn-around (obtain results prior to running tubing back in well).
- 17 Run tubing back in well with wireline re-entry guide, Otis 1.875 XN, ~4' pup joint, and Otis 1.875 X seating nipples on bottom. Space and land bottom of wireline re-entry guide as close to bottom of 5-1/2" casing as possible. Lock down tubing mandrel.
- 18 Remove BOPE and install remainder of wellhead for well control either screw into mandrel a temporary pup jt and valve and strip over of have stabbing valve ready to install.
- 19 If an LCM pill was pumped to kill the well in step 10, spot and inject 500 gal of 15% HCL treated with corrosion inhibitor, iron control / sequestering agent and surfactant into storage zone. Displace with freshwater treated with biocide and clay stabilizer.
 Have liquid caustic on location to neutralize flowback fluids.
- 20 Swab / flow well to re-establish gas flow.
- 21 RDMO service rig.
- 22 Reconnect well line.
- 23 Notify WET Project Support that well is back in-service.
- 24 Reclaim R&L
- 25 Commission well by completing, processing, and retain for records the Wellsite Review and Turnover Form.
- 26 Notify REG that well is ready for storage service.

Office of Oil and Gas

MAR 0 9 2023

WV Department of Environmental Protection

SER NEXT PAGE IF A SNUBBING UNIT WILL BR USED.

PREPARED BY:	Maria Medvedeva	REVIEWED BY:	James Amos	APPROVED:	Brent Criser
PREP DATE:	2/10/2023				

WELL JOB PLAN		STS Well Enginee	ring & Techno	logy	PAGE 3	DATE JOB PREPARED:	2/10/2023
Objective:	Obtain HRVRT log					LAST PROFILE UPDATE:	
TITLE:	Pull tbg, log, re-run tbg				WORK TYPE:	CAPITAL	
FIELD:	Lanham	WELL:	7129				
STAT:	W	SHL (Lat/Long):	38.456908	-81.720302	API:	47-039-01075	
DIST/TWP: Union		BHL (Lat/Long):	38.456908	-81.720302	CNTY:	Kanawha	
			THE STREET	URE (continued)			

Assess condition / integrity of A-section of wellhead to determine if it can handle stand-alone snubbing forces. If deemed necessary, utilize CSI's substructure to provide stability to snubbing stack.

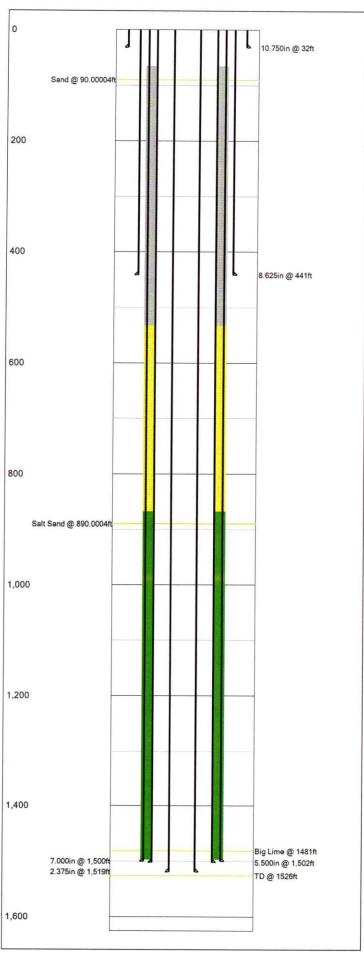
If determine location is large enough to stage a standalone snubbing unit + crane, and the well cannot be fluid killed, use procedue below -

- 40 Document and report to WE&T the initial casing and annular pressures.
- 41 Pump 20 gals methanol and 20 bbls fresh water down tubing to verify it's open.
- 42 Flow well up casing to verify no bridges and dry wellbore.
- 43 MIRU TTS slickline unit. RIH to find bottom of tubing. Install TTS packoff plug #1 in bottom joint of tubing. Perform negative pressure test in stages to 0 psig. Install TTS packoff plug #2. Perform negative pressure test in stages to 0 psig.
- 44 Remove tbg valve and bonnet. Spray/pour lubricant around top of tubing mandrel and around lock-down pins. Clean mandrel lift threads and verify thread profile. NU 7-1/16" 3M gate valve, Cameron double BOP (blind-shear in bottom / 2-3/8" pipes in top), and annular.
- 45 MIRU stand-alone snubbing stack. Perform low (250 psig) and high (1100 psig) pressure test on each BOP component, including FOSV (2), choke line, blow-off line, and equalization line.
- 46 PU pulling joint, screw into tubing hanger, grab bite on tubing with snubbing slips, equalize pressure across hanger, back out mandrel hold-down pins, and unseat hanger.
- 47 Strip / snub tubing out of hole. On last 3 joints RIH 60 ft every joint with weight on masonry twine to verify depth of upper RBP. Last joint, stop connection just below annular, close gate valve and lower snubbing pipe rams, and bleed pressure to verify last joint. Note that there will likely be pressure inside tubing between the two RBPs.
- 48 Evaluate tubing condition, for tubing to be rerun back in the well.
- 49 MIRU Baker Atlas Logging. Run guage ring and HRVRT. Request 1-day turn-around (obtain results prior to snubbing tubing back in well).
- 50 Snub tubing back in well with wireline re-entry guide, Otis XN and Otis X seating nipples on bottom. Do not run tubing into openhole.
- 51 Land tubing and lock-down mandrel. RDMO snubbing unit.
- 52 Reconnect well line
- 53 MIRU TTS slickline unit. Pressure tubing. Run gauge ring and pull SN plugs. RDMO slickline unit.
- 54 Notify WET Project Support that well is back in-service.
- 55 Reclaim R&L.
- 56 Commission well by completing, processing, and retain for records the Wellsite Review and Turnover Form.
- 57 Notify REG that well is ready for storage service.

Office of Oil and G	
MAR 0 9 2022	as
WV Department of	

PREPARED BY:	Maria Medvedeva	REVIEWED BY:	James Amos	APPROVED:	Brent Criser
PREP DATE:	2/10/2023				

4703901075W



Last Upd		d:	1/2	0/202	23 1	12:0)7 I	>V	Л			()	() TransCanada		
Field Name					L	eas	e Na	am	ie	Hai			Well No.		
Lanham					L	Lanham - 07129						07129			
County			H	S	tate	ate						APIN	lo.		
Kanawha				W	V							47039	90107	750000	
Version	1	Versi	on '	Tag	Ž.						716				
	0 0	Curre	nt C	Comple	etior	1									
G.L. (ft)	K.B	. (ft)		Sec.		To	wns	hi	p/Blo	ock		Rang	e/Su	rvey	
1,526.0		1,528	8.0	56-65		Un	ion					0310	07129	9	
Operator	g H			V	Vell	Sta	tus	iy.	La	atitu	de		Long	gitude	
TransCanad	а			Α	СТ	VE					38	.4569		-81.720	
Dist. N/S (ft) N	I/S L	ine	Dist	t. E	W (ft)	E/	W Li	ne	Fo	otage	Fron	1	
PropNum							S	ou	d Da	te	V	Co	mp. [Date	
Elijah L. Bailey And/Or										12/1	/194	43			
Additional I				Web.									5712		
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Date		Des	crip	tion	O.E.		33.53	Wt Grad		ade	To (MD		Bottom (MD ft)		
12/1/1943		С	asir	ng	T		750	•	40.5	0			0	3:	
12/2/1943		С	asin	ıg	\exists	8.	625		24.00) j-	55		0	44	
12/3/1943		C	asin	ıg	1	7.	000		20.00				0	1,50	
7/2/1950		C	asin	g	\neg	5.	500		15.50				0	1,502	
9/8/2005		Tı	ubin	g	7	2.	375		4.70) J-	55		0	1,519	
Casing Cem	ent	Sum	ma	ry	1550		Yell		T.	all the	1 3	THE		A September 1	
C Date		No.		Csg.		1	Гор	٦	Bot		Т	Co	mme	ents	
0/0/00/	_	Sx	_).D. (ir		(M	D ft	-	(ME	-	_	D:			
9/6/200		0	_		500			35			1	ee Pip			
9/6/200		0			500			32				artial Q		′	
9/6/200		0			500		86	38	1	,497	G	ood Qu	uality		
Formation T	-0		nma												
Forma	atio	n		(TVI	p D ft					(Com	ments	6		
and				,,,,,	_	_	Con	nn	nents	: w (@ 97	7			
Salt Sand					8	90	Con	nn	nents	: w (@ 10	050 Ga	as @	1014	
Big Lime															
D			\neg			26	Comments: Gas @ 1511 1520-1524 GaS 1520'-1524'-6.755 MMCF-NAT								
							330								

Office RECEIVED of Oil and Gas

MAR 0 9 2023

WV Department of Environmental Protection

WR-35 Rev (5-01)

Signed:

DATE: <u>3/17/08</u> API # : <u>47- 039 - 01075</u>

State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Roberts, Mark A.	Oper	ator Well No.:	7129	
LOCATION: Elevation: 675 ft	Quad	rangle: Pocat	alico	
District: Union Latitude: 700 Feet South of Longitude 3,450 Feet West of	38 Deg. <u>27</u>		Sec.	
Company: Columbia Gas Transmission Corp	Casing &	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 1700 MacCorkle Ave SE	Tubing	urining	 	up Cu. Pt.
Charleston, WV 25325-1273	This is an exis	ting storage us	ell – all of the ex	istina tuhina
Agent: Paul Amick		d new tubing ra		isting tubing
Inspector:	was pulled an	d liew tubing ra	111	
Date Permit Issued: 8/22/05			Υ	Т
Date Well Work Commenced: 8/24/05	2-3/8" tbg		1520	NA
Date Well Work Completed: 10/5/05	2-3/6 tog		1320	INA
Verbal Plugging:			-	
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 1528				
Fresh Water Depth (ft.): not applicable - rework				
Salt Water Depth (ft.): not applicable - rework				
Is coal being mined in area (N/Y)? no				
Coal Depths (ft.):ft				
OPEN FLOW DATA				
Producing formation Big Lime Pay zon Gas: Initial open flow 11,700 MCF/d Final open flow 58,000 MCF/d Time of open flow between initial and f Static rock Pressure 850 psig (st	Oil: Initial op Final open inal tests not	en flow 0 flow 0 applicable	Bbl/d Bbl/d Hours Hours	
NOTE: ON BACK OF THIS FORM PUT THE FINTERVALS, FRACTURING OR STIMULATIN LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE	IG, PHYSICAL GEOLOGICAL	CHANGE, E	TC. 2). THE WE	ELL

By: James E. Amos - Senior Storage Engineer - Columbia Gas Transmission Corp. VED
Date: 3 17 08

RECE Of Oil & Gas
Office of Oil & Gas

WV Department of
Workington Department of
Environmental Protection
04/14/2023

Lanham Storage well 7129

This is an existing storage well. Below is a summary of work performed.

- 1) Killed well.
- 2) Pulled tubing.
- 3) Logged (GR-Neutron- cement bond log-pipe inspection).
- 4) Installed new wellhead.
- 5) Performed acid treatment.

Treatment Data: 2000 gals HCl acid

22 MSCF nitrogen Break @ 650 psig ATP = 900 psig

* Note that no earthen pit was utilized. Flowback treatment fluids recovered via steel tanks and transported to LAD in Wheeling, WV for disposal/processing.

DATE: 12-30-99 9 0 1 0 7 5 W API#: 47-039-107

WR-35: ETT 1: E Oin:201016 GC3 Fermicing

State of West Virginia

390	W 191
	ν
Figure 1	

Section -	nvironmental Pr		:v:::::: <u> </u>					
WV Division of	's Report of We							
22	3 report or 17 c	WOIK		Ę				
Farm name: Roberts, Mark	Operator Well No.: Lanham 7129							
LOCATION: Elevation: 675	Quad	rangle: <u>Poca</u>	talico					
District: Union	Coun	ty: <u>Kanawh</u>	a					
Latitude: 600 Feet South of 38	Deg. 27	Min30	Sec.	,				
Longitude 3450 Feet West of 81	Deg42	Min. 30	Sec.					
Company: Columbia Gas Transmission	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.				
Address: P. O. Box 1273	10-3/4". 4		32'	пр сигт				
Charleston, WV 25325-1273	77.9							
Agent: Richard L. Coty	8-5/8", 24	1b.	441'					
Inspector: Carlos Hively								
Date Permit Issued: 11-22-99	7", 20 lb.		1500'	8 sx				
Date Well Work Commenced: 12-16-99								
Date Well Work Completed: 12-16-99	5-1/2", 15	.5 1b.	1502'	100 sx				
Verbal Plugging:								
Date Permission granted on:	2-3/8", 4	16.	1526'					
Rotary Cable X Rig								
Total Depth (feet): 1708' Fresh Water Depth (ft.): 97'								
Fresh Water Depth (ft.): 97'								
Salt Water Depth (ft.): 1050								
out which begin (iii). Too								
Is coal being mined in area (N/Y)? No								
Coal Depths (ft.): Not Reported								
OPEN FLOW DATA * Storage well -								
Producing formation Big Lime (store				4'				
Gas: Initial open flow MCF/d Oil:	Initial open fl	OWE	Bbl/d					
Final open flow N/A MCF/d F	inal open flow	B	ονα					
Time of open flow between initial and f								
Static rock Pressurepsig (surfac	e pressure) att	erHot	ırs					
Second producing formation								
Gas: Initial open flow MCF/d Oil:								
Final open flow MCF/d Fi								
Time of open flow between initial and f Static rock Pressure psig (surfac								
Static fock Flessure	e pressure) an	ernor	115					
NOTE: ON BACK OF THIS FORM PUT THE F INTERVALS, FRACTURING OR STIMULATIN LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COALERGOUNTERED BY THE X	IG, PHYSICAL GEOLOGICAL	CHANGE, E	IC. 2). THE WE	LL				
1 1 1 V · · ·								
Signed:								
By: Paul C. Amick Date: 12-30-99								
Date,								

Pumped a matrix acidizing treatment using 1100 gallons of 15% swic acid at 1 BPM.

PORM GB 1-140-F CSD	. \//	ORK ORD)ED		85 ()	99 U T
REQUEST NO. 2952	***	OKP OKL	BUDGET NO	497	WORK ORDER NO	5901
DATE AUTUSC 14, 1950		3-5257-5		untion	DATE ISSUED	19_50
COMPANY United Fuel Gas Company PROPOSED WORK Recondition Well X-2-7129	and Ir		" (for	Storage)		Lændenir
KNOWN AS Well # X-2-7129-Addition:			200		RIGINAL	
PURPOSE AND NECESSITY To clean out well and Storage purposes in Fool X-2.			avy squipmen	t, due te	AMESIL DSING Y	mrohased for
LOCATION: Well X=2-7129 = E.M.Bailey et, Union	al Fe	Rura	1	. Kens	wha West	Virginia
TOWN TAX DISTRICT			P OR DISTRICT	COUN		STATE
APPROVED BY John C. Martin	FOR	APPROV	FD BY J. J	. Martin		
	DETAI	L OF EXPENDI	TURES		4))	
MATERIAL TO BE INSTALLED SECURE Price	SIZE	QUANTITY	AMOUNT	QUANTITY	AMOUNT	VARIATION
15.5# Sheel Cag. 1.16 Steel Tubing .22	5点"QD 2"	1500° 1625°	1,740,00 35%,00	- 4	7,44	
Type Q Tong Head 7	EZ3H	2	200.00		1.2.2	
No-d. 2245 Flg. F.VComp.	5» 7n	1	271,00 58,00	47	-: :	island
Sex. Nipole 5.30	78x50	3	6,00			
Baker Gement Shoe 61.71 Turnbuckles 11.88 Mi	5g=0D	1 2	62,00 24,00	l ŝ		
Ang. Glamps 15.60	2#	î	15,00	1		
Fittings 17/2 Finegor	ryk.		35.00	12	24.5	.3.:1
			5 445 707			
INSTALLATION OF THE PROPERTY COST			2,770,00		5 700 00	
Direct Labor Use of Auto and Hauling			1,000,00 500,00		7263	
Tools, Supplies and Miscellaneous Expen		. ^	75.00		477.23.	
Hauling, creeting & dismentling Spudder Fuel (Gasolime)			300.00 100.00			33.22
Cerant & Service			325,00		574	
Acidizing & Service			365, 30	2.	1325	
Stores Expense and Freight	~		216.00		9-2.75	12.50
Labor Benefits Overheads			172.00		• • • • •	25 50
FERNING OF CARLIDETTS			41,00			٠ د
TOTAL INSTALLATION OF RESIDENCE COST			1,074,00 2,354,00		3 - 1 2 2 5 7	2,
INDICATE NORTH		SKETCH	7,350,000	INV	ENTORY MAP NO	aves i
POOLE HOATH		SKETCH		<i>3</i> 12.5	Kap Square)	5-55
Note: Move in Bucyrus Erie Spudder, and	d stri	ng of Old	eening Out To	cols Asid	isə Well, Pul	. 3°
Tubing, Set Bridge with Cal-Sea. Cement well to top of hole, Clea	l on I	op, Run	String of 52'	FOD with 27 Tubin	Baker Coment e. Install 189	SLIPS; enallymeters
equiptment, Leave Well shut in,	and r	eport ra	sults.	J 6 44 22 6	6, 5,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DC (MAINTED C)
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Merking, Everning & Dismarthing arms and Eur Mag.	Syudda	ar Oharşe	s analuded t	a Arabi	Sewo inves	
t evant Mana Carl Range					Office RECEIVED	
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04/14/2023

NO. OUANTITY MAPPED

__ 19 _

K-2 7/29 F-18742

		CASING AND TUBING:
E. W. Bailey, et		Packers
Columbian Carbon		Size Weight Used Left Cas Anchor
Union District, Ka	mawha Count	
Map Square 56-65	=	8 1/4" 24# 440'10" 440'10" 42" long
Elevation 670.0 Di		7" 20# 1500' 0" 1500' 0" Depth set 1503'
Commenced 11-10-43		3 1/2" 8.7# 1529' 1529'
Completed 12-2-43		5 1/2* 17# 23' 23'
Surface	0	20
Red Rock	20	90
Sand	90	100
Red Rock	100	21.0
Send	210	380
Slate & Shells	380	410 Fresh Water 97 4 BPM
Şand	410	470 Salt Water 1050' HF
Slate	470	490
Sand	490	595 Gas 1014' show
Slate & Shells	595	890
Sand	890	1272 Big Lime Gas 1511' show
Slate break	1272	1312 Gas 1520-24
Sand	1312	1481 SIN
Big Lime	1481 SLM	1526 Acidized with 1000 gala Office of CIVED
TOTAL DEPTH	1526 DIM	Volume 6,865 MOF
		72 hr. RF 3304 MAR 0 9 2023
		2023
et.		WV Department of

Wind land

DEPARTMENT OF MINES MIS. 56-65.
WELL RECORD

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Faction (Colors) Direct Fork of Foundation River Well No. 1 (CH-729) Tor. 670,000 Light's Direct Colors Factoria						1.00		
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ww-2A (Rev. 6-14)		1). Date:		12211	7013_	
,		2.) Operat	or's Well	Number	<u>Lanham</u>	7129
				State	County	Permit
		3.) API We	ell No.:	47	039 -	01075
DED		OF WEST VIRGI		OF OF 6	RECEIVE	D Gas
DEF	ARTMENT OF ENVIRONMEN' NOTICE AND APPLICA					
4) Surface Ow	vner(s) to be served:	5) (a) Coal Opera	itor		Departr	ment of
(a) Name	Mark A. Roberts		Not oper	ated	Environmental	protection
Address	PO Box 444	Address				
71. N. N. I	Dunbar, WV 25064	_				
(b) Name		(b) Coal Own			on	
Address		Name <u>^</u> Address	Not opera	ated		-
		_ Address _	=			
(c) Name		Name -				16
Address		Address -				
		_				
6) Inspector	Terry Urban	(c) Coal Less	ee with D	eclaration	1	
Address	PO Box 1207		Not opera	ated		
	Clendenin, WV 25045	Address _				
Telephone	304-549-5915		- 110710			
. Included is th	TO THE PERSONS NA ne lease or leases or other continuing	contract or contracts	s by which	L hold the	right to extract	oil and gas
OR	ie lease of leases of other continuing	Contract of Contracts	by Willell	i floid tile	igni to extract	oli aliu gas
Included is the state of the	ne information required by Chapter 22					
I certify t	that as required under Chapter 22-6	of the West Virginia	Code I h	ave served	copies of thi	s notice and
application, a loc	ation plat, and accompanying docume Personal Service (Affidavit attac		on th	e above na	amed parties b	y:
X	Certified Mail (Postmarked post					
X	Publication (Notice of Publication	on attached)				
I have re	ad and understand Chapter 22-6 and	d 35 CSR 4, and I a	gree to th	e terms ai	nd conditions	of any permit
issued under this		anally avaminad and	d am famil	ior with the	information o	outomitted on
	under penalty of law that I have persorm and all attachments, and that be					
obtaining the info	rmation, I believe that the information	is true, accurate and	d complete).	•	sil .
	re that there are significant penalties	for submitting false	information	n, includinç	the possibilit	y of fine and
imprisonment.	Well Operator	Columbia Gas T	ranemie	sion IIC	Mario	1
		Maria Medvedev		SIOII, LLC	/////////	11 1
		Senior Wells En		torage To	echnical Sei	rvices
	Address:	1700 MacCorkle				
	Tolonhono	Charleston WV 304-410-4313	25314-12	2/3		
		maria medvede	va@tcer	neray cor	n	and the second s
Subscribed and s	worn before me this 2157 day of		14(4)(00)	, 2014	2.3	OFFICIAL SEAL
Reben K.	My Rebecca K. Warn	, ,	Nota	ry Public	TC/ENERGY /	NOTARY PUBLIC E OF WEST VIRGINIA cca Kennedy Warnick COLUMBIA GAS TRANSMISSION
My Commission E					1700	MACCORKLE AVE., SE LAND DEPT
Oil and Gas Privacy	Notice			·	My Comm	ission Expires June 30, 2026
The Office of Oil and	Gas processes your personal information	such as name address	and phone	umbor as s	nort of our room	latani dutica

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 Office regulatory officer regulatory officer regulatory officer regulatory officer regulatory officer regulatory officer regulatory duties.

Columbia Gas Transmission, LLC

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



February 22nd, 2023

Mark A. Roberts PO Box 444 Dunbar, WV 25064 RECEIVED
Office of Oil and Gas

MAR 0 9 2023

WV Department of Environmental Protection

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to repair an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Lanham 7129 (API 47–039–01075).

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

Regards,

Maria Medyedeva Senior Wells Engineer Well Engineering & Tech

Well Engineering & Technology Columbia Gas Transmission, LLC U.S. Postal Service CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at unitary isps.com*.

Certified Mail Fee \$4.15

Extra Services & Fees (check box, add fee) Postage

Return Receipt (hardcopy)

Return Receipt (hardcopy)

Return Receipt (electronic)

Certified Mail Restricted Delivery \$ \$4.15

Postage \$9.65

Total Postage and Fees \$17.15

Sent To

Street and Apt. No., or PO Box No.

City, State, Zip.4

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

54.9/h	
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. 	A. Signature Agent Addressee B. Received by (Printed Name) C. Date of Delivery
1. Article Addressed to: Mayk A. Roberts PO Box 444	D. Is delivery address different from item 1? Alf YES, enter delivery address below:
Dunbou , WV 25064 9590 9402 7630 2122 5691 46	3. Service Type □ Adult Signature □ Adult Signature Restricted Delivery □ Certified Mail® □ Certified Mail® □ Certified Mail Restricted Delivery □ Certified Mail Restricted Delivery □ Cellect on Delivery
2. Article Number (Transfer from service label)	☐ Collect on Delivery Restricted Definery
	2938 ricted Delivery

WW-2A Surface Waiver (4/16)

SURFACE OWNER WAIVER

County	Kanawha	Operator	Operator	Columbia Gas Transmission LLC
			Operator well number	Lanham 7129

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gorand Cas NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION: MAR 0 9 2323

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

WV Department of Environmental Protection

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 FIFTEEN (15) 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 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.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ____ including a work order on Form WW2-B, a survey plat, WW-9, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON		FOR EX	XECUTION BY A COR	RPORATION, ETC.
	Date	Company Name		
Signature		By Its		Date
Print Name			ignature	Date

COAL OPERA	ATOR, OWNE	R, OR LESSEE	WAIVER
County Kanawha			* coal not operated
Operator Columbia Gas Transmission LLC	Operator	's Well Number	Lanham 7129
INSTRUCTIONS TO	COAL OPER	RATOR, OWNER	R, OR LESSEE
To the coal operator, owner, or any objection you wish to make or are with the Chief of the Office of Oil and by the Office. Mail objections to:	required to ma	ake by WV Code	-A. You are hereby notified that 22-6-15, 16 or 17, must be filed fter the receipt of this application RECEIVED Office of Oil and Gas
Chief, Office of Oil and Gas Department of Environmental Protectic 601 57 th St. SE	on		MAR 0 9 2023
Charleston, WV 25304 (304) 926-0499 extension 1654			WV Department of Environmental Protection
	WAIVE	ΕR	
The undersigned coal operator ocation has examined this proposed wocation, the well location has been adwork proposed to be done at this location equirements of the West Virginia Code	vell location. If ded to the min ion, provided, t	a mine map exi e map. The und the well operator	lersigned has no objection to the has complied with all applicable
FOR EXECUTION BY A NATURAL PERSON		FOR EXEC	UTION BY A CORPORATION, ETC.
Da	ite	Company Name	
Signature		By	Date
		Signa	ture Date

Operator's Well Number Lanham 7129

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

E Bailey etal

United Fuel Gas Company

Storage Lease - 123 / 510 - 512 RECEIVED 1048242-00201 and Gas

MAR 0 9 2023

WV Department of Environmental Protection

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 he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

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

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

Well Operator:

Maria Medvedeva

By:Its:

Senior Wells Engineer Storage Technical Services

Columbia Gas Transmission, LLC

ΥW	٧-	·2B	1
^ (5	-1	2)	

Well No.	Lanham 7129	

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed be collect sample.		y operator to perform analysis, and contactor chosen t RECEIVED Office of Oil and Gas		
Certified Laboratory Name Sampling Contractor		MAR 0 9 2023		
		WV Department of Environmental Protection		
Well Operator Address	Not applicable - existing underground natural ga	s storage well		
Telephone				

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

API Number 47	_ 039	_ 01075	
Operator's Well N	No. Lanha	m 7129	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

TECIDS, COTTINGS DISTO	DONE & RECEIVIATION TEAM
Operator Name_Columbia Gas Transmission, LLC	OP Code 307032
Watershed (HUC 10) Pocatalico River	Quadrangle Pocatalico, WV
Do you anticipate using more than 5,000 bbls of water to comple Will a pit be used? Yes No	te the proposed well work? Yes No
If so, please describe anticipated pit waste	ALIA NIA
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
	Number 34-167-23862
Will closed loop systembe used? If so, describe: yes - steel flow	v line to tanks RECEIVED Office of Oil and Gas
Drilling medium anticipated for this well (vertical and horizonta -If oil based, what type? Synthetic, petroleum, etc. N/A	1)? Air, freshwater, oil based, etc. Fresh water AR 0 9 2023
Additives to be used in drilling medium? NaCl, biocide, soda ash,	WV Department of
	polymol, statisti, statistical and
Drill cuttings disposal method? Leave in pit, landfill, removed o	*
-If left in pit and plan to solidify what medium will be u	
-Landfill or offsite name/permit number? To be managed	d by Waste Management and US Ecology for disposal at permitted landfill
Permittee shall provide written notice to the Office of Oil and Ga West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	·
on April 1, 2016, by the Office of Oil and Gas of the West Virgi provisions of the permit are enforceable by law. Violations of an or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, based on m	
Subscribed and sworn before me this 21 st day of Face Rebecca 16. 15 My commission expires 6/30/26	Notary Public Notary Public Notary Public State OF West Virginia Rebecca Kennedy Warnick TC/ENERGY / COLUMBIA CAS TRANSMISS 1700 MACCORKLE AVE., SE LAND DEPT Charleston W 25325 My Commission Expires June 30, 2026
	0.414.410.000

Operator's Well No. Lanham 7129

Proposed Revegetation Treatment: Acres Disturbed < 1.0	Prevegetation pH 6-7	
Lime 2 Tons/acre or to correct to pH		
Fertilizer type 10-10-10		
Fertilizer amount 600 lb	s/acre	
Mulch_ hay or straw @ 2Tons/a	acre	
Seed	d Mixtures	
Temporary	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
Maps(s) of road, location, pit and proposed area for land applica rovided). If water from the pit will be land applied, provide wa L, W), and area in acres, of the land application area.	ter volume, include dimensions (L, W, D) of the pit, ar	been nd dime
Attach: Maps(s) of road, location, pit and proposed area for land applica rovided). If water from the pit will be land applied, provide wa L, W), and area in acres, of the land application area. hotocopied section of involved 7.5' topographic sheet.	tion (unless engineered plans including this info have ter volume, include dimensions (L, W, D) of the pit, an RECEIVED Office of Oil and	nd dime
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Operator's Well No. Lanham 7129

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

GROUNDWATER PROTECTION PLAN

Operator Name: Columbia Gas Transmission, LLC	
Watershed (HUC 10): Pocatalico River	Quad: Pocatalico, WV
Farm Name: Elijah J. Bailey etal	
List the procedures used for the treatment and discharge of fluid groundwater.	ds. Include a list of all operations that could contaminate the
No fluids planned to be discharged. No fertilizer will be stored on site, but located within secondary construction equipment, well treatment fluids, and source of contamination to groundwater. Drilling a accumulated fluids to be hauled off site to UIC displacement.	containment. Accidental spills from produced well fluids are the only possible and flowback fluids to be stored in tanks. All
Describe procedures and equipment used to protect groundwate	rquality from the list of potential contaminant sources above
All construction and well servicing equipment will to Tanks to be monitored daily for leaks. Spill kits will	be monitored and inspected daily for leaks. be on site. Office of Oil and Gas
	MAR 0 9 2023
	WV Department of Environmental Protection
List the closest water body, distance to closest water body, and discharge area.	
Pocatalico River is at a distance of 0.07 miles W.	
The Rippling Waters Campground WV9918017is t distance of 9.87 miles NE from discharge area.	he closest Well Head Protection Area at a
Summarize all activities at your facility that are already regulate	d for groundwater protection.
N/A	

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

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N/A
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.
Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.
During routine tailgate and JSA meetings groundwater protection will be a topic of discussion.
Pro
Office of Oil and Gas
MAR 0 9 2023
Environmental Protection
Provide provisions and frequency for inspections of all GPP elements and equipment.
No fertilizer will be stored on site. Fuel, oil, and lubricants will be stored on site, but located withis econdary containment. Spills from construction equipment, well treatment fluids, and produced well fluids are the only possible source of contamination to groundwater.
All construction and well servicing equipment will be monitored and inspected daily for leaks or spills.
ate: 02/21/2023

Office of Oil and Cas 9 0 1 0 7 5W

MAR 0 9 2023

WV Department of Environmental Protection



4703901075W

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MAR 0 9 2023

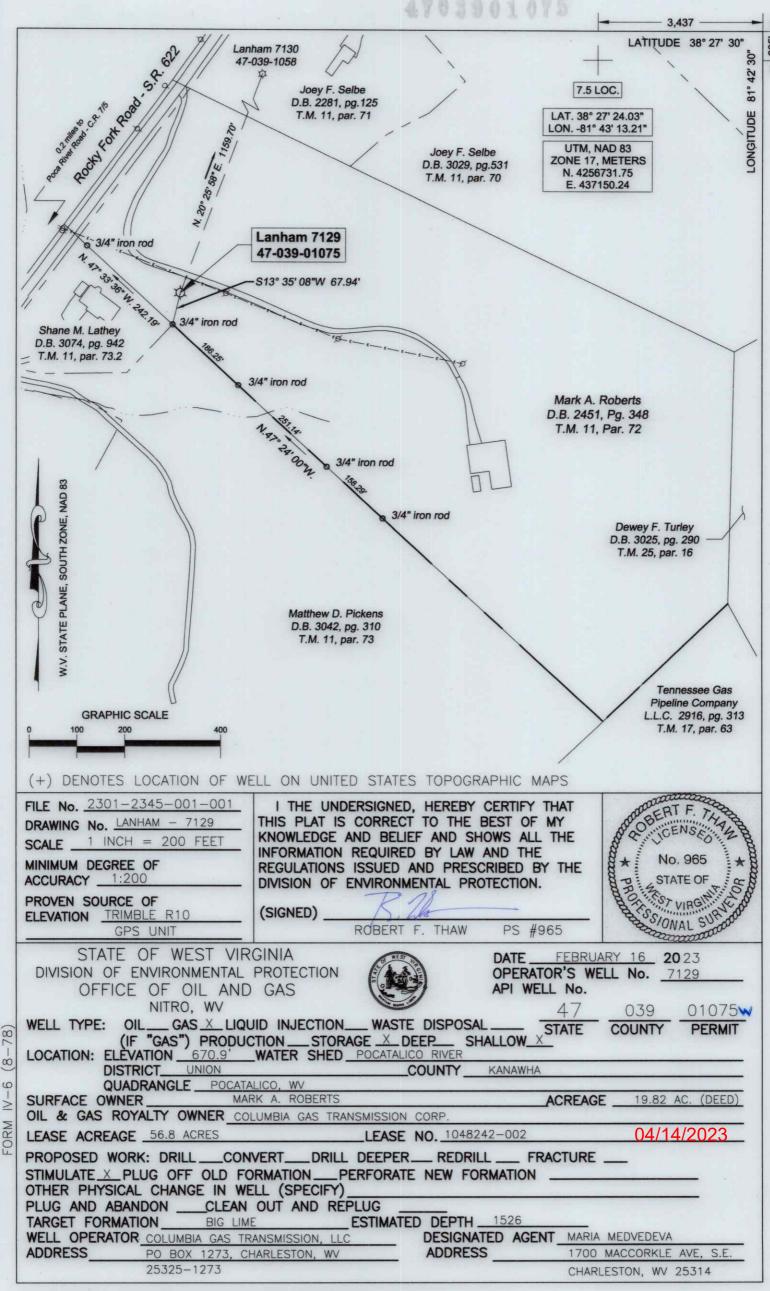
WV Department of Environmental Protection



4703901075W
Office RECEIVED Oil and Gas
MAR 09 2023

WV Department of Environmental Protection

POCATALICO QUADRANGLE WEST VIRGINIA Trimble. (BANCROFT) (ROMANCE) TOPOGRAPHIC SERIES 081° 44' 22.4482" W 038° 28' 45.9310" N 081° 42' 03.9625" W 038° 28' 45.9310" N 28 (STALBANS) (BIG CHIMNEY) DISTRICT 081° 44' 00.0000" W 081° 43' 30.0000" W 081° 43' 0 081° 42' 3 038° 26' 08.2019" N 081° 44' 22.4482" W 038° 26' 08.2019" N 081° 42' 03.9625" W (CHARLESTON WES Declination SCALE 1:24000 (ALUM CREEK) (CHARLESTON Produced by Trimble Terrain Navigator Pro Topography based on USGS 1:24,000 Maps Mile 38081-D5-TM-024 POCATALICO, WV North American 1983 Datum (NAD83) To place on the predicted North American 1927 move the projection lines 10M N and 13M E JAN 1, 1999 GN 0.45° W MN 7.71° W CONTOUR INTERVAL 20 FT 04/14/2023



CK# 43060 CKAMNT\$900.00

Columbia Gas Transmission, LLC

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



March 9th, 2023

WV DEP – Office of Oil & Gas 601 57th Street, SE Charleston, WV 25304-2345 Office of Oil and Gas
MAR 0 9 2023

WV Department of Environmental Protection

Enclosed is a well work permit application for the following Columbia Gas Transmission existing storage well:

Lanham 7129 (API 039-01075)

Please email to address below, and return hardcopies of permits to:

Columbia Gas Transmission 1700 MacCorkle Ave SE Charleston, WV 25314 Attn: Maria Medvedeva

If you have questions, feel free to call.

Regards,

Maria Medvedeva Senior Wells Engineer

Well Engineering & Technology Columbia Gas Transmission, LLC

Mob: 304-410-4313

maria medvedeva@tcenergy.com



Kennedy, James P < james.p.kennedy@wv.gov>

well work permit issued 4703901075

1 message

Kennedy, James P <james.p.kennedy@wv.gov>

Mon, Apr 10, 2023 at 11:23 AM

To: maria_medvedeva@tcenergy.com, Terry W Urban <terry.w.urban@wv.gov>, sallierobinson@kanawha.us

To whom it may concern, a well work permit has been issued for 4703901075.

James Kennedy

WVDEP OOG

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