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



API 47 - 035 00487 County	Jackson	District Ravenswood	i		
Conducille	ne				
Farm name Aylers, Arthur		Well Number 7295			
Operator (as registered with the OOG) Columbia	Gas Transmission, LL		-		
Address 1700 MacCorkle Ave SE	City Charleston	State WV	Zip 25325-1273		
	n as-drilled plat, profile vi	ew, and deviation survey Easting			
Landing Point of Curve Northing		Easting			
		Easting			
Elevation (ft) 669 GL Type	of Well □New 🗈 Existi	ng Type of Report	Interim Final		
Permit Type Deviated Horizontal	Horizontal 6A 🗈 Ver	tical Depth Type	Deep Shallow		
Type of Operation □ Convert □ Deepen □ D	rill 🗆 Plug Back 🗈	Redrilling Rework	Stimulate		
Well Type □ Brine Disposal □ CBM □ Gas □ C	oil Secondary Recover	y □ Solution Mining ■ Stora	ge 🗆 Other		
Type of Completion ■ Single □ Multiple Flu	ids Produced □ Brine	■Gas □ NGL □ Oil □	Other		
Drilled with □ Cable □ Rotary					
Drilling Media Surface hole □ Air □ Mud □ Production hole □ Air □ Mud □ Fresh Water Mud Type(s) and Additive(s)			Fresh Water Brine HEGELVED TOP OF OH AND Gas NOV 1 9 2015		
Date permit issued 6/2/15 Date drill	ling commenced	Date descriptions	/ Department of		
Date stim activities began 10/7/15		activities ceased 1	0/28715 ^{tal} Froisotion		
Verbal plugging (Y/N) Date permission		Granted by			
Please note: Operator is required to submit a pluggi	ng application within 5 da	ys of verbal permission to plu	g		
Freshwater depth(s) ft	Open mine(s) (Y/N) depths			
Salt water depth(s) ft		Void(s) encountered (Y/N) depths			
Coal depth(s) ft Cavern(s) encountered (Y/N) depths					
Is coal being mined in area (Y/N)					
			ved by:		

WR-35 Rev. 8/23/13								Page of
API 47- 035	_ 00487	Farm na	me Aylers, Art	thur		Vell number	295	
CASING STRINGS	Hole Size	Casing Size	Depth		Grade wt/ft	Basket Depth(s)		nt circulate (Y/N) details below*
Conductor			2402	0300	***************************************	Dopui(a)	Tiovide	details below
Surface		li .						
Coal							10	
Intermediate 1						_		
Intermediate 2								
Intermediate 3		1		-				
Production		h						
Tubing								
Packer type and d	epth set		<u> </u>	•				
Comment Details	No existing casing	was altered and no addit	ional casing installed o	luring permitted well	work.			
CEMENT	Class/Type		Slurry	Yield	Volum		nent	WOC
DATA Conductor	of Cement	of Sacks	wt (ppg)	(ft ³ /sk:	s) <u>(ft ³</u>	<u>) Top</u>	(MD)	(hrs)
Surface								
Coal								
Intermediate 1								
Intermediate 2								
Intermediate 3								 -
Production							+	
Tubing								
Plug back pro	tion penetrated	reli work.		Loggers TD (f				
Kick off depth	(ft)	-						
Check all wire	-	□ caliper □ neutron	□ density □ resistivity	□ deviated/d □ gamma ray	7	□ induction □ temperature	□s©nie)///	EIVED
Well cored DESCRIBE TI		□ Convention IZER PLACEME			Were cuttin	ngs collected	NOV 1	No and Ge
						i A a		~ 4015
					<u>. </u>	Fnu	V Degr.	* & W
						-IIVIK	onnenta	Prost of
WAS WELL O	COMPLETED A	AS SHOT HOLE	□ Yes ■ N	No DETA	ILS	_		r rotection
WAS WELL	OMPLETED (OPEN HOLE?	□ Yes ■ No	DETAIL!	S uncernanted of	erforated tailpipe belo	ow nacker (evietir	ag completion)

WERE TRACERS USED □ Yes ■ No TYPE OF TRACER(S) USED _____

WR-	35
Rev	8/23/13

Page of	Page	of
---------	------	----

API 4	₁₇₋ 035 =	00487	Farm name_Aylers, Arthur	7295 _Well number
-------	----------------------	-------	--------------------------	----------------------

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					·
-					
			<u> </u>		
			-		
-					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	10/27/15	16	3600	rolled over	4050	25200	401	200 N2 (MMS
								10 acid (bbls)
			<u> </u>					
-								
<u> </u>								
-			0	1		<u> </u>	REC	EIVED III and Gas
			<u> </u>				of of	H and a
7			ng -					m and Gas
_							NOV 1	9 2015
		ō ō	<u> </u>			-	W Depa	rtment of
	-					Envi	ronnent	rtrient of
	<u>L</u> .					<u> </u>	1	r intection

Please insert additional pages as applicable.

NTD 25								
WR-35 Rev. 8/23/13								Page of
API 47- 035	_ 00487	Farm	name Aylers, Ar	thur		Well numb	er_7295	
PRODUCING	FORMATION	<u>(S)</u>	<u>DEPTHS</u>					
Oriskany (stora	ge)	<u> </u>		_ TVD	4854 - 71	MD		
								
Please insert ac	lditional pages	as applicable.						
GAS TEST	□ Build up	□ Drawdown	■ Open Flow		OIL TEST =	Flow □ Pun	пр	
SHUT-IN PRE	SSURE Sur	face 1600	psi Botto	m Hole	psi	DURATION	OF TEST 1	hrs
OPEN FLOW	Gas 53,000 mc	Oil fpd	NGL bpd	bpd	Water bpd	GAS MEAS		□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTOI DEPTH IN	FT DESCRIBE		ID RECORD QUA	
	NAME TVD 0	TVD	MD 0	MD	TYPE OF FL	LUID (FRESHWA	ATER, BRINE, OI	L, GAS, H₂S, ETC)
_								
Please insert ad	l ditional pages :	as applicable.				-		
Drilling Contra	ctor							
Address			City			State	Zip	
Logging Comp Address	any		City			State	Zin	
Cementing Con Address			City			State	Office RE	CEIVED Oil and Gas
Stimulating Co. Address 528 Ind			City	Jane Lew	-	State WV	Zip (2637)	Oil and Gas
Please insert ad						State	Zip MUV	1 9 ₂₀₁₅
Completed by	Jim Amos	00			Telephone	304-483-007	WV Dep	ariment of
Signature		clin	Title Se	enior Engine	er	Date	tolsons ien	ariment of let Protection
	J							-ιουιιοη

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

Ripley 7295 (API 035-00487)

Work Performed

Cleaned/jetted well using coil tubing. Washed across perforated interval with foamed treated fresh water and 300 gals HCl acid. Fracture stimulated. Flowed well to recover fluids.

RECEIVED
Office of Oil and Gas
NOV 1 9 2015
WW Gepartment of
Environmental Profection

WR-34 Page 1 of 3 Rev. 10-10

State of West Virginia

Department of Environmental Protection - Office of Oil and Gas Discharge Monitoring Report

Oil and Gas General Permit

Company Name:	Columbia Gas Transmission, LLC		
API No:	47-035-00487	County:	Jackson
District:	Ravenswood	Well No	7295
Farm Name:	Aylers, Arthur		
Discharge Date/s l	From:(MMDDYY) N/A	To: (MN	MDDYY) N/A
Discharge Times.	From: N/A	To: N//	
Total Volume to b	e Disposed from this facility (gal	lons): 14910	
Disposal Option(s) Utilized (write volumes in gallor	ns):	
(1) Land Applica	tion:	(Include a topogra	phical map of the Area.)
(2) UIC:	14910	Permit No. 34	-105-23619 & 34-105-22739
(3) Offsite Dispo	sal:	Site Location:	
(4) Reuse:		Alternate Permit N	lumber:
(5) Centralized F		Permit No.	
(6) Other method		(Include an explan	ation)
Follow Instruction	s below to determine your treatme	ent category:	,
Optional Pretreat	ment test: Cl- mg/l	DO m	g/l
1. Do you have (Y/N)	permission to use expedited treatr If ves. who?		tor or his representative? nd place a four (4) on line 7.
If not go to l			na place a four (+) on line 7.
•	aid or flowback put into the pit? (Y/N) If v	ves, go to line 5. If not, go to
line 3.	1		, 8
3. Do you have	a chloride value pretreatment (see	e above)? (Y/N)	If yes, go to line 4
If not, go to l			
	de level less than 5000 mg/l? (Y/N	· — · ·	, then enter a one (1) on line 7.
	a pretreatment value for DO? (Se	e above) (Y/N)	If yes, go to line 6
-	a three (3) in line 7.	16	
	vel greater than 2.5 mg/l?(Y/N) hree (3) on line 7.	If yes	, enter a two (2) on line 7. If
	he category of your pit. Use the A	onnronriate section	
	on Pit condition:	ippropriate section.	
Name of Princi	pal Exec. Officer: James E Amos		RECEIVED
Title of Officer			Office of Oil and Gas
Date Complete	d: 11/17/15	 	and Gas
I certify und	der penalty of law that I have pe	rsonally examined a	and am familiary with the 2015
intornation suc	omitted on this document and all t	ne attachments and t	that, based on my inquiry
information is t	duals immediately responsible for rue, accurate, and complete. I am	aware that there are	e signiffeant penalties for ent of
submitting false	e information, including the possib	pility of fine and imp	prisonment.
0		,	

gnature of a Principal Exec. Officer or Authorized agent.

02/03/2017

Category 1 Sampling Results API No: Predischarge Discharge Parameter Limits Reported Limits Reported Units pН 6-10 6-10 S.U Settling Time 5 N/A N/A Days Fe 6 6 mg/l D.O. 2.5 2.5 mg/lSettleable Sol. 0.5 0.5 mg/1C1 5.000 5,000 mg/lOil Trace Trace Obs. TOC** Monitor mg/lOil and Grease Monitor mg/ITotal Al*** Monitor mg/l TSS Monitor mg/l Total Mn Monitor Monitor mg/l Volume Monitor Gal Flow Monitor Gal/min Disposal Area Monitor Acres *** Al is only reported if the pH is above 9.0 Category 2 Sampling Results API No: Predischarge Discharge Parameter Limits Reported Limits Reported Units pΗ 6-10 6-10 S.U Settling Time 10 N/A N/A Days Fe 6 6 mg/1D.O. 2.5 2.5 mg/lSettleable Sol. 0.5 0.5 mg/lCl* 12,500 12,500 mg/lOil Trace Trace Obs. TOC** Monitor mg/lOil and Grease Monitor mg/lTotal Al*** Monitor mg/l TSS Monitor mg/l Total Mn mB/ECEIVED Monitor Monitor Volume Monitor Office of Oil and Gas Flow Monitor Gal/min Disposal Area Monitor Adde 1 9 2015 * Can be 25,000 with inspector's approval, WV Department of (Inspector's signature): **Environmental Protection** ** Include a description of your aeration technique. Aeration Code: *** Al is only reported if the pH is above 9.0

WR-34 Page 2 of 3

WR-34 Page 3 of 3 Category 3 Sampling Results API No: Predischarge Discharge **Parameter** Limits Reported Limits Reported Units pН 6-10 6-10 S.U Settling Time 20 N/A N/A Days Fe 6 6 mg/l D.O. 2.5 2.5 mg/l Settleable Sol. 0.5 0.5 mg/1C1*12,500 12,500 mg/l Oil Trace Trace Obs. TOC** Monitor mg/lOil and Grease Monitor mg/1Total Al*** Monitor mg/1**TSS** Monitor mg/1Total Mn Monitor Monitor mg/l Volume Monitor Gal Flow Monitor Gal/min Disposal Area Monitor Acres * Can be 25,000 with inspector's approval. (Inspector's signature): Date: ** Include a description of your aeration technique. Aeration Code: *** Al is only reported if the pH is above 9.0. Category 4 Sampling Results API No: Predischarge Discharge Parameter Limits Reported Limits Reported Units pН 6-10 6-10 S.U **Settling Time** 1 N/A N/A Days Fe Monitor Monitor mg/1D.O. Monitor Monitor mg/1Settleable Sol. Monitor Monitor mg/1Cl* 12,500 12,500 mg/l Oil Trace Trace Obs. TOC** Monitor mg/l Oil and Grease Monitor mg/1TSS Monitor mg/1Total Mn Monitor Monitor mg/1 RECEIVED Volume Monitor Office of Oil and Gas Flow Monitor Gal/min Activated Carbon (0.175) N/A N/A lb/Bl NOV **1 9** 2015 10 days from dis. Date Site Reclaimed N/A N/A

(Inspector's signature): _____ Date: ____

Monitor

Disposal Area

* Can be 25,000 with inspector's approval,

APPR Department of

Environmental Protection



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25364 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Hufiman, Cabinet Secretary www.dep.wv.gov

June 02, 2015

WELL WORK PERMIT Re-Work

This permit. API Well Number: 47-3500487, 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

RECEIVED
Office of Oil and Gas

NOV 1 9 2015

Operator's Well No: 7295
Farm Name: AYLERS, ARTHUR

API Well Number: 47-3500487

Permit Type: Re-Work Date Issued: 06/02/2015 WV Department of Environmental Protection

Promoting a healthy environment.