

#### 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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Wednesday, November 6, 2019 WELL WORK PERMIT Vertical / Re-Work

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

Re: Permit approval for 7344 47-035-00918-00-00

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: 7344

Farm Name: MESEK, STEVEN & ALTA C.

U.S. WELL NUMBER: 47-035-00918-00-00

Vertical Re-Work Date Issued: 11/6/2019



### **PERMIT CONDITIONS**

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

#### **CONDITIONS**

- 1. 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 with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

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

1) Well Operator:	Columbia Gas Transmission, LLC	307032	Jackson	Ravenswood	Sandyville, WV
		Operator ID	County	District	Quadrangle
2) Operator's Well	Number: Ripley 7344		3) Elevation:	743'	
4) Well Type: (a) (	Dil or Gas X				
(b) It	f Gas: Production / Under	ground Stor	rage X		
	Deep X / Sha	allow	_		
	et Formation(s): Oriskany  Depth: 5016 Feet Fo esh water strata depths: 352' (as repo			rget Depth: 4: al Depth: Orisk	945' kany
	Ilt water depths: 620', 775', 1370' (as repo				
9) Approximate co	pal seam depths: 658'-660' (as repo	rted by driller i	in 1956)		
10) Approximate v	oid depths,(coal, Karst, other): N	one reported b	y driller in 1950	5.	
11) Does land con	tain coal seams tributary to active	mine? No	0.		
12) Describe propos	sed well work and fracturing method	s in detail (at	tach addition	al sheets if nee	eded)
reshwater treatment	followed by a 45 minute flowback test. I	f deemed nece	essary, proceed	d with coiled tub	ing cleanout and
another 45 minute flow	vback test evaluation. At that point, if de	emed necessa	ary, proceed wi	th fracturing.	

### 13) CASING AND TUBING PROGRAM

TYPE S	SPECIFIC	ATIONS		FOOTAGE	INTERVALS	S CEMENT
	Size	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13-3/8"	Unknown	48	699'	699'	Unknown
Fresh Water	10-3/4"	Unknown	40.5	1190'	0'	Unknown
Coal	8-5/8"	Unknown	24	2081'	2081'	50 sx.
Intermediate	7"	Unknown	23	4883'	4883'	125 sx.
Production	4-1/2"	N-80	11.6	N/A	5002	90 RECEIVED
Tubing	2-3/8"	Unknown	4.6	4965'	0'	Unknown 3 2019
Liners						WV Department of

Packers: Kind: None of record.

Sizes: N/A
Depths Set N/A

9-11-19

Environmental Protection



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

API 47 035 00918 County J	ackson	District Ravensw	ood
Condunilla MAI			
Farm name_Steven & Alta C. Mesek		Well Number 734	
Operator (as registered with the OOG) Columbia G	as Transmission, LL		
Address PO Box 1273	ty Charleston	State WV	Zip 25314
Top hole Northing 43043  Landing Point of Curve Northing N/A	74.11 m	ew, and deviation survey Easting 440295.41 m Easting N/A The income of the survey of t	rtical wellbore)
Elevation (ft) 771.5 GL Type of	Well □New ■ Existi	ng Type of Repor	t oInterim #Final
Permit Type   Deviated   Horizontal   I	Horizontal 6A 💄 Ver	tical Depth Type	■ Deep □ Shallow
Type of Operation   Convert   Deepen   Dri	l □ Plug Back □	Redrilling Rework	■ Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil	□ Secondary Recover	y □ Solution Mining ■ S	torage   Other
Type of Completion Single Multiple Fluid  Drilled with Cable Rotary  Drilling Media Surface hole Air Mud Fresh Water  Production hole Air Mud Fresh Water  Mud Type(s) and Additive(s)  Fresh based polymer	esh Water Interme	■Gas □ NGL □ Oil ediate hole □ Air □ Mu	d □ Fresh Water □ Brine
11011000	g commenced_	V/A Date drilling	
Date rework activities began 4/3/1998	Date rework	activities ceased	5/6/1998
Verbal plugging (Y/N)N/A Date permission	granted	Granted by	
Please note: Operator is required to submit a plugging  Freshwater depth(s) ft 352' per driller in 1956  Salt water depth(s) ft 620, 775, 1370', per driller  Coal depth(s) ft 658 - 660' per driller in 1956  Is coal being mined in area (Y/N)	Open mine(s) (  Void(s) encour  Cavern(s) enco	Y/N) depthsnone ob	served during rework observed during rework e observed during rework
	NO	- 4040	Reviewed by:
	NAC.	Department of	

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CASING							number_734		
STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wuft		Basket Depth(s)	Did cement circul * Provide details	23 20 9 12 2 2 2 9 1
Conductor	unknown	13-3/8"	699	unknown	unknowr	1/48	unknown	unkno	
Surface	unknown	10-3/4"	N/A					ran/pulled when o	rilled in 1956
Coal									505x
Intermediate 1	unknown	8-5/8"	2081	unknown	unknowr	1/24	unknown	unknown /	
Intermediate 2	unknown	7"	4883	unknown	unknown	1/23	unknown	unknown /	125 sx
Intennediate 3							200000000000000000000000000000000000000		
Production	6.25"	4-1/2"	5002	new	N-80 /	11.6	none	N/90	sx
Tubing									
Packer type and d	epth set							1	
CEMENT	Class/Type	Numbe			eld	Volume	Ceme		voc
DATA Conductor	of Cement	of Sack			/sks)	(ft <sup>3</sup> )	Top (N		hrs)
Surface	unknown	unknow	n unkno	own unkr	nown	unknown	unkno	JWII U	nknown
Coal									
Intermediate I	Land to the state of the state					tunble e.	unber	num.	alment -
Intermediate 2	unknown	50	unkno		nown	unknown	unkno		nknown
Intermediate 2	unknown	125	unkno	own unkr	nown	unknown	unkno	own U	nknown
POTTETT POTT (F.			- 14			244	400		54
Production Tubing	Class A	90	15.	7 1.	.21	109	405	96	24
Drillers TD (ft	t) 5016 ation penetrated			Loggers TI Plug back to					
	ocedure								
Plug back pro	n (ft)	□ caliper □ neutron	□ density □ resistivity		d/direction ray		nduction emperature	Asonic	
Plug back pro Kick off depth Check all wire	eline logs run  Yes  No	□ caliper □ neutron Conventi	□ resistivity	y □ gamma ewall	ray Were	□ t e cuttings	emperature collected	yes ■ No	
Plug back pro Kick off depth Check all wire	eline logs run  Yes  No	□ caliper □ neutron Conventi	□ resistivity	y □ gamma ewall	ray Were	□ t e cuttings	emperature collected		
Plug back pro Kick off depth Check all wire Well cored DESCRIBE T	eline logs run  Yes □ No	□ caliper □ neutron  Convention  ZER PLACEM	□ resistivity  onal • Side  ENT USED F	y □ gamma ewall OR EACH CA	were	□ t e cuttings	emperature collected	Yes ■ No	CEWED
Plug back pro Kick off depth Check all wire Well cored DESCRIBE T Unknown WAS WELL	eline logs run  Yes □ No THE CENTRAL	□ caliper □ neutron  Convention  ZER PLACEM  AS SHOT HOLE	□ resistivity  onal • Side  ENT USED FO	y gamma ewall OR EACH CA	Were	□ t e cuttings	emperature collected	Yes ■ No	CEWED FOII and G
Plug back pro Kick off depth Check all wire Well cored DESCRIBE T Unknown WAS WELL	eline logs run  Yes □ No THE CENTRAL	□ caliper □ neutron  Convention  ZER PLACEM	□ resistivity  onal • Side  ENT USED FO	y gamma ewall OR EACH CA	Were	□ t e cuttings	emperature collected	Yes No	CEWED Oil and G

47-035-00916W

WR-35

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	FORMATION(	S)	DEPTHS					
	ral gas storage)			_TVD _49	45 - 4972 MD			
					-			
lease insert ac	iditional pages a	as applicable.						
GAS TEST	□ Build up □	Drawdown	□ Open Flow	OI	L TEST = Flow	⊐ Pump		
HUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi DURA	TION O	F TEST	hrs
OPEN FLOW	Gas mef	Oil fpd	NGL bpd	bpd	ater GAS l			□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TY			
Oriskany SS	0 unknown	unknown	4965	5016		Stor	age Gas	
								RECEWED Office of Oil and
								MOV
								NOV 5 201
								WV Department
Dages incert or	iditional pages a	e annlicable					En	WV Department wironmental Prote
	iditional pages a						En	WV Department
	actor Key Energy		City	Buckhannan	State	wv	Zip <u>2620</u> °	WV Department
Orilling Contra Address Hall Re	Hey Energy	y Services		Buckhannan	State	wv	En	WV Department
Orilling Contra Address Hall Re	Key Energy  Many Western Atl	y Services		Buckhannan	State	wv	En	WV Department
Orilling Contra Address Hall Ro Logging Comp Address Island	Mestern Atl	y Services las (for perforati	ing) City				Zip 2620	WV Department
Orilling Contra Address Hall Ro Logging Comp Address Island	Mestern Atl Many Halliburto	y Services las (for perforati	ing) City				Zip 2620°	WV Department
Orilling Contra Address Hall Re Logging Comp Address Island Cementing Co Address 5148 E	Mestern Atl Mester	y Services las (for perforati	ing) City ices City	Buckhannan	State	wv	Zip 2620° Zip 2620° Zip 25026	WV Department
Orilling Contra Address Hall Re Logging Comp Address Island Cementing Co Address 5146 E Stimulating Co	Mestern Atl Mester	y Services  as (for perforation Energy Service)	ing) City ices City	Buckhannan	State	wv	Zip 2620	WV Department
Orilling Contra Address Hall Re Logging Comp Address Island Cementing Co Address 5146 E Stimulating Co	Mestern Atl Mester	y Services  as (for perforation Energy Service)	ing) City ices City rvices	Buckhannan Blue Creek	State	wv	Zip 2620° Zip 2620° Zip 25026	WV Department

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	4		4
Page	_	Of	1

API	47-035 _ 00918	Farm name Steven & Alta C. Mesek	Well number 7344	

### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	4/29/1998	4952	4972	120	Oriskany

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	5/6/98	18	3150	2333	N/A	26800	425	163 MSCF
					screened			
					out			
-								
-								
-								
							REC	EWED
				*	•			Oil and Gas

Please insert additional pages as applicable.

NOV 5 2019

IR-26 REV 9-CHILLO CO OIL COO PAGE PAGE 1 OF 5/27 1 1099 WN DWEION OF THE PROJECTION'S PERMIT SUMMARY FORM DATE STARPED/LOCATION: Existing API# 47. 35-00918 D DRILLING COMMENCED: 4/10/048
TD DATE: 4/13/18 DEPTH: 50/5 OPERATOR: COLUMBIA GAS TRANSMISSION CO TD DATE: FARM: STEVEN & ALTA C. MESEK WELL NO.: 7344 WATER DEPTHS COAL DEPTHS IS THE OPERATOR KEEPING DETAILED DRILLING AND CEMENT RECORDS: YES [ ] NO, [ ] (6) POINTS)

RAN (70) FEET OF (3%) PIPE ON Existing CEMENTED WITH SACKS (CIRCULATED) Y

RAN (705) FEET OF (7) PIPE ON EXISTING CEMENTED WITH SACKS (CIRCULATED) Y

RAN (785) FEET OF (7) PIPE ON EXISTING CEMENTED WITH (735) SACKS (CIRCULATED) Y

RAN (5015) FEET OF (462) PIPE ON EXISTING CEMENTED WITH (755) SACKS (CIRCULATED) Y

PIT DISCHARGE DATE: WEATHER CONDITIONS: LAND ACRES DISCHARGED: PIT VOLUME: PIT ADDITIVES: FIELD AMALYSIS: pH Fe mg/l cl mg/l D.O. mg/L toc mg/L QUESTIONS FOR THIS REPORT ARE IN ACCORDANCE OF WV CODE 22-6-28, 22-6-30, 22-6-6, 22-6-7, AND 22-6-27 AND REGULATION 38CSR 18-9.2.3, 38CSR 18-12.1, 38CSR 18-16.5, 38CSR 18-16.6. TOTAL POINTS AVAILABLE FOR QUESTION 2: 2. (10 POINTS 2. DID OPERATOR GIVE PROPER NOTICE TO INSPECTOR BEFORE THE FOLLOWING: A. CONSTRUCTION YES [4] NO [ ] (2 PTS) B. DRILLING YES [4] NO [ ] (2 PTS)
C. PIT TREATMENTS YES [4] NO [ ] (2 PTS) D. PIT DISCHARGE YES [4] NO [ ] (2PT E. RECLAMATION YES [L] NO [ ] (2 PTS) 3. DID THE OPERATOR HAVE PERMIT ON SITE? YES [4-NO [ ] 3. (4) POINTS) 4. WAS THE TIMBER CUT, STACKED, AND BRUSH USED FOR SEDIMENT BARRIERS BEFORE DIRT WORK STARTED? YES [ NO [ ] 4. (4)POINTS) 5. ARE ALL LOCATION AND/OR ROAD BANKS BEING SLOPED? YES [-]-NO [ ] 5. (4 PTS) 6. (-2-2) POINT TOTAL POINTS AVAILABLE FOR QUESTION 6: 6. WERE THE FOLLOWING SEDIMENT CONTROL STRUCTURES PROPERLY INSTALLED/MAINTAIN YES [4] NO [ ] YES [ NO [ ] (3PTS) B. CROSS DRAINS A. ROAD DITCHES YES [V] NO [ ] (3PTS) D. CREEK CROSSINGS YES [V] NO [ ] C. CULVERTS E. DIVERSION DITCHES YES [ NO [ ] (3PTS) F. BARRIERS YES [1]-NO [ ] G. TEMPOKARY SEEDING YES [ ] NO [L]-(-3PTS)--7. HAS TOP SOIL (IF ANY) BEEN STOCKED PILED? YES [/] NO [ ] 7. (2 PTS) 8. IS THE WELL STAKE IN THE PROPER SPOT IN ACCORDATION WITH 38CSR-9.2.3 8. (3 PTS) AFTER CONSTRUCTION? YES [L]-NO [ ] YES [ NO [ ] 9. IS THE PIT PROPERLY INSTALLED? YES [ ] NO [ ], CUT YES [ ] NO [ ] A. WALLS COMPACTED YES [L] NO [ ] B. FREE OF DEBRIS BEFORE LINING YES [LY NO [ C. LINED D. FLUIDS CONTAINED YES [L-] NO [ E. FREE OF NON EXEMPT/RESTRICTED MATERIALS YES [ ] NO [ ] F. PROPERLY TREATED YES [L] NO [ ]

10. DID INSPECTOR APPROVE ALL MODIFICATIONS YES [ ] NO [ ]

TOTAL POINTS PAGE 1 (60-P

9. (6 PTS)\_

Тизрестоя	'DATE' RELEASED
The Hill market	bb/2/b
	and drafting if transfer
Active of the many of the state	10× 61/0/6
The state of the s	Artice
Jan. men 42 f Cemental	1003 Vij
and diet pipe out of will lighting in afternoon	त्रण्य 86/11/11
	<u>1912 X5181/11</u>
STIRING NIN CON ANTICK CONTRACTOR OF STREET	£ ≠ GTAG
16. TOTAL RECLAMATION SCORE: 35	Z WONTHS OF TD YES
STNIOG 8 [ ] ON [ ] STNIOG E [ ] ON [ ]	4 MONTHS OF TD YES
WELETED WITHIN:	IS. WAS RECLAMATION CON
	HIBALIAVA STUIOG LATOT
THE YES [   (PRTS) J. SOIL PH BEFORE AFTER THIN 30 DAYS YES [   WO [ ]	I. WAS SEED BED ADEQUI
D YES [ 1 NO [ ] (2PTS)  MTERIALS YES [ 1 NO [ ] (2PTS)	G. API NUMBER INSTALL
I (SEIR) E CYLER E LENCES KERITURO : I (SEIR	E. TANK DIKES YES [L
TON PROPERLY RECLAIMED? YES [4] NO [ ] (2PTS ]  TOO [ ] (2PTS) B. LOCATION YES[4] NO [ ] (2PTS ]  TOO [ ] (2PTS) D. FIPELINES YES[4] NO [ ] (2PTS ]	A. ROADWAY YES [
FOR QUESTION 14:	TOTAL POINTS AVAILABLE
YES [J NO [] B. FLOW LINE YES [J] NO [] 13.(3PTS)	C. FIRE EXTINGUISHER
PROPERLY OPERATED TO MAINTAIN SAME CONDITIONS?	13. IS EQUIPMENT BEING
THE BEING PROPERLY MAINTAINED TO PREVENT WASTE?	12. IS EQUIPMENT AND SI
] NO [ ] B. DRILLING YES [ ] NO [ ]	C. PIT TREATMENT YES
SITE DURING THE FOLLOWING:	11. WAS INSPECTOR ON S
SECTOR'S SUMMARY FORM API# 47- 35-00918 :	LA SOF 2 INSE

M81600-550-L+

RECEIVED
Office of Oil and Gas

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

NOV 5 2019

WELL WORK PERMIT

WV Department of Environmental Protection

This permit, issued to COLUMBIA GAS TRANSMISSION CORP.
is evidence of permission granted to perform the specified well work at the location described 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 to the Oil and Gas Inspector HOMER DOUGHERTY at 304-543-0781 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 reported to 1-800-654-3312.

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.

Well work to be conducted under this permit shall be commenced within two (2) years from date of issue.

Theodore M. Streit

D., .

Chief

Title:

Operator's Well No: 7344

Farm Name: STEVEN & ALTA C. MESEK

API Well Number: 47- 35-00918 D

Date Issued : 03/05/98

Expires two (2) years from issue date.

FORM WW-25

035-0913.00			
,033	Fage	0.5	

	DIVIS	IONCOE É	VIRONMEN	TAL PROTEC	TION, OFFI	CE OF OIL A	
٠,	Well Ope				المراحة المراحة	1045	e) 594
806	Operator	's Well b	Number:	7244		3) E	Elevation: 743'
54	Well typ	e: (a) (	Dil_/	or Gas	<u>-</u> /		,
		(b) 3	If Gas:	Production Deep	Underg	round Stora Shall	ige_/ Low_/
	7-1			(s): De	SKANY		
6)	Proposed	Total De	epth: 5	035	_ feet		
7)	Approxim	ate fresh	h water s	trata dept	hs: 351		
8)	Approxim	ate salt	water de	pths: 6	20, 775	1370	
9)	Approxim	ate coal	seam dep	ths:	658 - 660		
10)	Does lan	d contain	n coal se	ams tribu	tary to act	ive mine?	Yes_/ No_//
11)	Proposed	Well Wo					UN AND CEMEN
12]						. Ceistan	۲.
					ING PROGRAM		
TYPE	3	S	PECIFICAT		FOOTAGE :		CEMENT
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
	48 HHD, luctor						
Fres	sh Water	1336		18		707'	
Coal		85%		124		2105	
	ermediate	7"		23		4883	135 SX
Pro	رسي duction	4'5"	N-80	11.6		5025	75 SX
Tub:	n Puuro) ing	230		4.6		4965	
Line			1				
PAC	KERS : Kir					-	
	Der	ths set					
0	0255933		For Offic	e of Oil a	and Gas Use	Only	
100							und     WPCP
1_	Plat	_I ww-9	1_1 ~~	-2B I_I	Bond	(Type)	Agent



### UNITED FUEL GAS COMPANY

47-035-60918N 1 of 3 7344

						12/7
SERIAL WELL NO. X-59-73	44	LEASE NO	.pt.5278	7- 5278	9.	MAP SQUARE 58-95
RECORD OF WELL NO.	on the		CASING AND	TURING		TEST BEFÖRE SHOT
W.E. Hupp et al farm of	Acres	SIZZ	WEIGHT	DEITTHE DEED IN	PELL IN	/10 of Water inlnch
in Ravenswwod_	District					18 /10 of Merc. in 7# 23#inch
Jackson	County	13 3/8"	48#	**	7071	Volume 6,755,000 Cu. ft.
State of: West Virginia		10 3/4"	40.5#	11901	Pulled	TEST AFTER SHOT
Field: Northern Divisi	on	8 5/8"	24#	-	21051	/10 of Water ininch
Rig Commenced By Contractor	19					/10 of Merc, ininch
Rig Completed 11 11	19	7"	23#	-	44061	VolumeCu, ft.
Drilling Commenced June 21,	19 56					1200 18 Hours AND SEA
Drilling Completed October 5,		10	4.6#	_	49871	Rock Pressure 1200
Drilling to cost	per foot	2 3/8"		rforate		Date Shot Not Shot
Contractor is: PacepBower C		~				Size of Torpedo
		<u> </u>		או דטאפ		
Address: Pineville, W,	va <sub>e</sub>		D-4-	10-5-5	6	Oil Flowedbbls. 1st 24 hrs.
***	<del></del>			_==	Totala	Oil Pumpedbbls, 1st 24 hrs.
Driller's Name Kenny Reyno	lds		2!! Tubii	ng Run	Casing 10-30-5	Well abandoned and
Vic Knight			1			
			Kind of Pa			Plugged19
BLO TA			1st. Perf. Se			
Rievation: 743.12			2nd Perf. Se	<u>t</u>	rom	
		DRIL	LER'S RECORD			
FORMATION	TOP	воттом	THICKNESS			REMARKS
Red Rock	0	20			<del>,</del>	
Slate	20	50				
Red Rock	50	70				
Sand	70	82				
Slate	82	94	<del> </del>		· —	RECEIVED Office of Oil and Gas
Red Rock	94	102				
Slate	102	108				NOV 5 2019
Red Rock	108	130				WV Department of
Lime	130	172				Environmental Protection
Red Rock	172	234				
Sand	234	275				
Lime		270				
<u> </u>	275	310				
Red Rock	275 310	324				
		1		2-Bail	er Wate	r hr at 352'
Red Rock	310	324		2-Bail	er Wate	r hr at 352°
Red Rock Sand	310 324	324 405		2-Bail	er Wate	r hr at 352'

SERIAL WELL NO.X-59-7344 LEASE NO. pt-52787-52789

47-035-00916W MAP SQUARE 58-95

PRILLER'S RECORD					
FORMATION	ТОР	воттом	THICKNESS	HAMARKS	
Lime	480	507			
Lime & Shells	507	518			
Sand	518	535			
Lime	535	<b>5</b> 85			
Grey Lime	585	592			
Sand	592	658		15-Bailer Water Hr 620'	
Coal	658	660			
Slate	660	674			
Lime	674	696			
Lime, Red	696	702		·	
Lime, Blue	702	720			
Sand	720	782		1-Bailer Water Hr. at 7751	
Slate	782	788			
Lime	788	824			
Red Rock	824	830			
Lime	830	844			
Sand	844	855			
Slate	855	860			
Red Rock	860	895			
Slate	895	930			
Lime	920	985			
Red Rock	985	990			
Slate & Shells	990	1002			
Red Rock	1002	1010		RECEIVED Office of Oil and Gos	
Slate	1010	1090		United to the did das	
Red Rock	1090	1098		NOV 5 2019	
Slate & Shells	1098	1190		WV Department of	
Line	1190	1198		Environmental Protection	
Slate & Shells	1198	1347			
Lime	1347	1360			
Sand	1360	1444		Hole Full Water at 1370	
Slate	1444	1450			
En Lime	1450	1460			
Gritty Lime	1460	1498			
Slate	1498	1515			
Sand	1515	1540			
Slate	1540	1550			

FORM U 97 1-P C 5 5

SERIAL WELL NO. X-59-7344

LEASE NO. pt . 52787-52789

47-035-00914h 3-637344 MAP SQUARE 58-95

47-035-00918W

тор	воттом	1	
		THICKNESS	REMARKS
1550	1594		
1594	1617		
1617	1625		
	1652		
1652	1776		
1776	1800		
1800	1803		
1803	1950		
1950	1955		
1955	2021		
2021	2100		
2100	2420		
2420	2430		
24.30	2440		
2440	3690		
3690	3740		
3740	3930		
3930	41.50		
4150	4525		
4525	4829		
4829	4945		
4945	4965		Gas at 4950' to 4962' 18/10" Mer.
4965			in 7" 23# 6,755.000 MCF.
/4B,			
			RECEIVED
			Office of Oil and Gas
			NOV 5 2019
			WV Department of Environmental Protection
	1617 1625 1652 1776 1800 1803 1950 1955 2021 2100 2420 2440 3690 3740 3930 4150 4525 4829 4945	1617 1625 1652 1652 1652 1776 1776 1800 1800 1803 1803 1950 1950 1955 1955 2021 2021 2100 2100 2420 2420 2430 2440 3690 3690 3740 3740 3930 3930 4150 4150 4525 4525 4829 4829 4945 4965	1617 1625 1652 1652 1652 1776 1776 1800 1800 1803 1803 1950 1950 1955 1955 2021 2021 2100 2100 2420 2420 2430 2440 3690 3690 3740 3740 3930 3930 4150 4150 4525 4525 4829 4829 4945 4965

X59-7344				CASING:	
			Size	Weight	Point Ceme:
W. E. Hupp, et al			13-3/8"	48#	6991
United Fuel Gas Company	n Countr	te: Vo	10-3/4"	40.5#	1190; Fulled
Ravenswood District, Jackso	in comicy,	ri. va.	8-5/8"	24# 22#	2081; 50
Map Squares - 58-95			7"	23#	48831 125
Commenced - 6-21-56			2"	4.6#	49651
Completed - 10-5-56				<b>5</b>	^
Elevation - 743.12'				e-Bower Const.	Co.
				ny Reynolds	
			ATC	Knight	
Red Rock	0	20	Gritty Lime	14.60	1498
Slate	20	50	Slate	14,98	
Red Rock	50	70	Sand	151	
Sand	70	82	Slate	1540	
Slate	82	94	Sand	1550	
Red Rock	94	102	Slate	159/	
Slate	102	108	Sand	161'	
Red Rock	108	130	Slate & Shells		
Lime	130	172	Sand	165	
Red Rock	172	234	Big Lime	177	
Sand	234	275	Slate	1800	
Lime	275	310	Big Lime	180	- ·
Red Rock	310	324	Slate	1950	
Sand	324	405	Sand	1955	
Rcd Rock Lime	405 414	434 458	Lime Slate & Shells	202. 3 2100	
Sand	414 458	480	Brown Shale	2420	
Lime	480	50 <b>7</b>	` Berea Shells	2430	
Lime & Shells	507	518	Slate & Shells		
Sand	518	535	Brown Shale	3690	
Lime	535	585	Slate & Shells		
Grey Lime	585	592	Brown Shale	3930	4150
Sand	592	658	White Slate	4150	
Coal	658	660	Brown Shale	452	
Slate	660	674	Corniferous Li		
Lime	674	696	Oriskany Sand	494	
Red Lime	696	702	Total Depth		49651
Blue Lime Sand	702 720	720 782	Wat an 3521 2 3	pailers per hou	<b>.</b>
Slate	782	788	Mater JJ2 2 I	paracis per nou	
Lime	788	824	Water 620' 15	bailers per ho	ur 🤼
Red Rock	824	830	Water 775' 1 1	bailer per hour	• •
Lime	830	844	11.7 a Cu37	12701	
Sand	844	855	Hole full wate	יטן כב יו	
Slate	855	860	Gas 4950' 4/10	0 א 7" 23# 853 1 18/10 Merc. 7	М
Red Rock	860	895	Gas 4950-4965	18/10 Merc. 7	" 23# 6,684 M
Slate	895	920	NOT SHOT OR FI	RACTURED	
Lime	920 005	985 990			
Red Rock Slate & Shells	985 990	1002	FINAL OPEN FLO	OW - 6,684 M -	Oriskany
Red Rock	1002	1010	18 Hr. R.P. 12		•
Slate	1010	1090			
Red Rock	1090	1098	Shut in 10-5-	56 in 7" casing	•
Slate & Shells	1098	1190		RECEIVED	
Lime	1190	1198	Offi	ice of Oil and Gas	•
Slate & Shells	1198	1347		1014 P 222	
Lime	1347	1360	N	OV <b>5</b> 2019	
Sand	1360	1444			
Slate	1444	1450		V Department of	7344
Black Lime	1450	1460	Envin	onmental Protection	137/

			A CONTRACTOR		1	
MACLI MODE	/ ODDED		,	• • • • • • •		
WELL WORK ORDER						
1-5202-1	OE.	2		385 No. 486	7 9	
REGOESI NOE			WORK	order No. 400 iber 20,	10 56	
DATE September 10, 19 56  COMPANY United Fuel Gas Company	PATE I VISION Northe	SSUED		mer 20,	-59-7344	
FARM W. E. Hupp, et al	ASE NO. Pt. 52	787 & 50	2780	7	1 13-13-13-1	
3	Toolea		-103	ACRES	• Va.	
ON WATERS Mud Run of Sandy Creek	OUNTYJECKE	- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		31VIE	8-95	
136 - 60 - 570 3	April 19,	1956		3600	60	
Mot Onomotod			NOTE BOO	^	_ FAGE	
			ilpings wit	HIN	FEET	
- ABB	LASS OF LOCATION. DOL X-59					
, on our me management				<del></del>		
RELATED WORK ORDER NOS	OR					
CHECK TYPE OF WORK	CHECH	C PERMITE	OR SER	VICES REQUIR	ED	
					F7	
DRILL NEW WELL	RIGHT OF WAY FOR	ROAD		LING PERMIT	<b>E</b> ]	
DRILL WELL DEEPER \	WELL LINE	·	- 📙 ABAI	NDONMENT PERM	님)	
ABANDON WELL	MEASURING EQUIPN	MENT	. L. BUR	VEY FOR: W. G. L	NE U	
	Mark Direction	_				
ESTIMATED DEPTH 4975 FEET. SAND Oriskany CONTRACTOR	Bower &	Pace Dri	Llling (	company		
				् • चि	<b>-</b> ,	
COMPANY WILL FURNISH: RIG: YES . NO . W	ATER_YES E N	<u>입니</u>	FUEL <sub>1</sub>	YES' NO		
APPROV	'ALS			•		
		<del></del>				
J. M. Grahem Sept. 10, 10 56	H. C. M	efford,	Jr.	DATE Sept.	12, , 56	
G D 73				<u> </u>		
S. R. Ferrell pare Sept. 12, 19 56				DATE	19	
DETAIL OF ESTIMATED COST	angala katan sa sakan 11 sepang atah	DETAI	L OF ACT	TUAL COST	,	
free to the first of the commence term recognished the commence of the commenc			PRICE	AMOUNT	VARIATION	
MATERIAL TO BE INSTALLED : REDCESS	AMOUNT	QUANTITY	PRICE	ANOUITI	(98.00)	
CASING WEIGHT 65# 161 201 4.90	98.00	7071	0 (1)	0 576 27		
13" 625' 7.00	4,375.00	707'	3.64	2,576.37	(1,798.63)	
40.5# 10" 1075! 4.80	5,160.00	07.051	0.01	4,287.23	(5,160.00) 158.23	
24# 8" 2075' 1.99	4,129.00	2105'	2.04 1.89	-9,298.65-	(4.351.35)	
" 23# 7" -4875' -2.80	_13,650.00	4925'	1+09	-9,290.05-	(4,5)1.07/	
The state of the s						
TUBING 4.6# 2.10 5000 .46	0 200 00	4992'	.517	2,582.54	282.54	
The state of the s	2,300.00	4992	• 241	• 1	202.74	
Netional Casing Head Assembly 85 "x7" 1	875.00	1		1.019.64	144.64	
TICKULUIAUA VUIVAAN AAVUU AAVU	310.00	i		406.99	96.99	
1104 407 06 044 16 446 7 444 7	20.00	i		27.88	7.88	
Extended Carolina Car	30.00				(30.00)	
A 444 2414 444 444 444 444 444 444 444 44	250.00			122.89	(127.11)	
Casing Shoes Var. 250.00 Miscl. Fittings&Centralizers 350.00	350.00	1		153.48	(196.52)	
Gate Valve Orbit	3,5000	1		254.81	254.81	
Otis Closing Tool	1	1		55.00	55.00	
W/n Flange	- Carry Health .	2	32-46	64:92	64.92	
TOTAL MATERIAL VI	31,547.00			20,850.40	(10,696.60)	
INSTALLATION OF DERICK BRIGGERIAL COST			•			
LABOR AND	2,500.00			1,304.33	(1,195.67)	
UBE OF AUTOMOBILE AND HAULING	4,000.00			3,246.46	(753.54)	
DRILLING 4975 FEET 6 4.75 PER FOOT	23,631.00	49651@	4.75	23,583.75	(47.25)	
PURE SAME SAME SAME	350.00			CEIVER 14.80	(165.20)	
XICHURENCE W. G. Line Cost			Office	ग जा बहुष् दुःख्न	215.47	
SUPPLIES AND EXPENSES	150.00		<u> </u>	206.04	56.04 (18.86)	
ENGINEERING BURVEY	95.00		SEF	1 3 7751914	10.00)	
表示: (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			1		(1,257.62)	
Cement - Aquagel & Services	2,500.00		WVI	nental Protection	(1,2)[.02]	
The second of th	7 700 00			1,638.00	538.00	
Tubing Well under Pressure-Otis Eastern Inc.	1,100,00	· · · ·	o y ¥gery	670 00	510.00	
Building Road & Repairs	• 🏲			89,86	89.86	
Material Converted into Junk iron			Y•a <sub>4</sub> ,	09,00	07.00	
The state of the s			• 2	land of the second		
2. 建设施工程的 1. 建筑 1. 基本 1	Total	let han sit	je generale			
A CONTROL OF THE SECOND	The second of th			191.74	191.74	
Interest	3,470.00		<del></del>	2,155.17	(1,314.83	
STORES EXPENSE AND FREIGHT	721.00			574.92	(146.08	
ADMINISTRATIVE AND GENERAL LABOR OVERHEADS	448.00			254.36	(193.64	
** TOTAL INSTALLATION MINISTRUME COST	38,965.00		4867	35,473.42	(3,491.58	
TOTAL INSTALLATION ENTREPRENENT COST	70,512.00		· · · · · · ·	56,323.82	(14,188.18)	
, IOIAL ESTIMATE	1 2 7 7		50 72hh		<u> </u>	

WW-2	2A
(Rev.	6-14)

1). Date: 08/29/2019

2.) Operator's Well Number

Ripley 7344

State

County

Permit

3.) API Well No .:

47-

035 - 00918 W

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

<ol> <li>Surface Ov</li> </ol>	vner(s) to be served		5) (a) Coal Ope	erator	
(a) Name	Steven Brian Stone		Name	Not operated	
Address	14 Crooked Rur	n Road	Address		
	Sandvville, WV		-		
(b) Name			(b) Coal O	wner(s) with Declaration	1
Address	-		Name	(6) = 46.6.4	
71001000			Address	_	
	_		_ Addicss		
(c) Name			Name		
Address	-		Address	-	
71001000			_ /\ddisso		
6) Inspector	Joe Taylor		(c) Coal Le	ssee with Declaration	
Address	1478 Claylick Re	and m1	Name	33CC WILL Decidiation	
Addiess	Ripley, WV 252		Address	-	
Tolophone		110	_ Address	-	
Telephone	304-380-7469	DEDCONO NA	UED ADOVE T	VE NOTICE THAT	
ladudad is t				AKE NOTICE THAT: lets by which I hold the rig	the transfer of one one
OR Included is to	ne lease or leases or	other continuing	contract or contra	icts by which I hold the rig	int to extract oil and gas
	he information require	ed by Chanter 22	Article & Section	8(d) of the Code of Wes	t Virginia (see page 2)
				nia Code I have served	
				igh on the above nam	
		ce (Affidavit attac			
$\overline{X}$			al receipt attached	d)	
		tice of Publicatio		(	
I have re				agree to the terms and	conditions of any permit
issued under this	s application.				
					information submitted on
					nediately responsible for
	ormation, I believe tha				9.99 <b>F</b> P
	are that there are sign	nificant penalties	for submitting fair	se information, including t	the possibility of fine and
imprisonment.		Well Operator	Columbia Gar	Transmission, LLC	
NOTABLE	PUBLIC OFFICIAL SEAL		James Amos	5 Transmission, LLC	01
MICH	MAEL D MCCLUNG		Principal Engi	inger Com	->/
State My Co	of West Virginia		48 Columbia		
	June 19, 2022 St Ravenswood, WV 26164	7 (44) 544	Sandyville, W		
Attaches with the state of the	St Raverswood, WY 2020	Telephone:	304-373-2412	7 20210	
				tcenerav.com	
Subscribed and	sworn before me this	302 day of	Sud	enver.	
MA 6	X MCP	DE	> 4	Notary Public	RECEIVED Office of Oil and Gas
My Commission	Expires	119 /202	2	Notary Fublic	
Oil and Gas Privacy		11/202			SEP 1 3 2019
		and the second	and the same and a second	see and phone number as a n	
THE LITTLE AT LAID SIN	0 1-36 DECCOCCOC VALLE DO	rennal intormation	SUCH SE HAMA SAAR	see and bhone hilmber as a b	art of other commission with the s

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of out/regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business of a generally 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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>



1700 MacCorkie Ave SE P.O. Box 1273 Charleston, WV 25325

September 11, 2019

Steven Stone 14 Crooked Run Road Sandyville, WV 25275

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to work on an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Ripley 7344 (API 47–035–00918).

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

Principal Engineer

Columbia Gas Transmission, LLC

RECEIVED
Office of Oil and Gas

SEP 1 3 2019

WV Department of Environmental Protection Operator's Well Number Ripley 7344

### 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

W. E. Hupp et. al. United Gas Fuel Company Lease No. 1052789 84/548

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

The permit applicant for the proposed well work addressed in this application hereby a knowledges 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: By:Its: James Amos

Columbia Gas Transmission, LLC

Principal Engineer

SEP 1 3 2019

Nice of Oil and Gas

WV Department of Environmental Protection.

WW-2B1
(5-12)

Well No.	Ripley 7344

### 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 below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Labor Sampling Cont	· · · · · · · · · · · · · · · · · · ·	
Well Operator Address	Not applicable - existing underground natural gas storage well.	
Address		

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.

RECEIVED
Office of Oil and Gas

SEP 1 3 2019

WW-9 (5/16)

API Number 47	035	_00918	
Operator's Well N	o. Ripley	7344	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Columbia Gas Transmission, LLC OP Code 307032	
Watershed (HUC 10) Mud Run of Sandy Creek Quadrangle Sandyville	
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 No	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a completed form WW-9-GPP)	204 24 405 22042
Underground Injection (UIC Permit Number 34-009-23821, 34-009-23823, 34-009-2382 Reuse (at API Number	34-105-23619
Off Site Disposal (Supply form WW-9 for disposal location)	
Other (Explain	
Will closed loop systembe used? If so, describe: Yes - steel piping connecting wellhead and tank(s).	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Fresh wa	ter
-If oil based, what type? Synthetic, petroleum, etc.	
Additives to be used in drilling medium? biocide, surfactant (CTCO), HCI acid, polymer, corrosion inhibitor, iron control	of Control of Control
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number? If needed: Rumpke Beech Hollow Landfill - Wellston, OH.	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permitte where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLL on April 1, 2016, by the Office of Oil and Cas of the West Virginia Department of Environmental Protectic provisions of the permit are enforceable by law. Violations of any term or condition of the general permit are or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information form and all attachments thereto and that, based on my inquiry of those individuals immediately the information, I believe that the information is true, accurate, and complete. I am aware that there are submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  Company Official (Typed Name) James Amos	on. I understand that the ad/or other applicable law nation submitted on this responsible for o btaining
Company Official Title Principal Engineer	Office of Oil and Gas
Company Onicial Title 11	1
Subscribed and swom before me this 3rd day of September 2019	SEP 1 3 2019
Subscribed and sworn before me this the day of september, 20 19  Notary Public	WV Department of Environmental Protection
My commission expires 6/19/2022	NOTARY PUBLIC OFFICIAL SE MICHAEL D MCCLUNG State of West Virginia My Commission Expires June 19, 2022 413 Fitzhugh St Ravenswood, Wy 2

Operator's	Well No	Ripley 7344	

roposed Revegetation T	reatment: Acres Disturt	bed < 0.2	Prevegetation pH 6	- 7	
Lime 2	Tons/acre or to	correct to pH 7-8			
Fertilizer type 1	10-10-10				
Fertilizer amoun	<sub>t</sub> 600	lbs/acre			
Mulch_2		Tons/acre			
		Seed Mixture	<u>'S</u>		
	Temporary		Permanent		
Seed Type	lbs/acre		Seed Type	lbs/acre	
Annual Rye	40	Ord	hard Grass and/or Ta	Il Fescue	29
		Biro	dsfoot Trefoil (Empire	9	
		Anr	nual Rye 12		
Maps(s) of road, location, rovided). If water from t L, W), and area in acres,	the pit will be land applied, of the land application	ed, provide water volur area.	ess engineered plans including the, include dimensions (L, W, E	this info have b	oeen d dime
Maps(s) of road, location, provided). If water from t L, W), and area in acres, Photocopied section of in	the pit will be land appli , of the land application : volved 7.5' topographic	ed, provide water volur area.	ess engineered plans including the, include dimensions (L, W, E	this info have b	oeen d dime
Attach: Maps(s) of road, location, brovided). If water from t L, W), and area in acres, Photocopied section of in Plan Approved by:	the pit will be land appli , of the land application : volved 7.5' topographic	ed, provide water volur area.	ess engineered plans including the, include dimensions (L, W, E	this info have b	oeen d dime
Maps(s) of road, location, rovided). If water from t L, W), and area in acres, thotocopied section of in that Approved by:	the pit will be land appli , of the land application : volved 7.5' topographic	ed, provide water volur area.	ess engineered plans including the, include dimensions (L, W, E	this info have b	oeen d dime
faps(s) of road, location, rovided). If water from t, W), and area in acres, hotocopied section of in lan Approved by:	the pit will be land appli , of the land application : volved 7.5' topographic	ed, provide water volur area.	ess engineered plans including the, include dimensions (L, W, E	this info have b	peen d dime
faps(s) of road, location, rovided). If water from t, W), and area in acres, hotocopied section of in lan Approved by:	the pit will be land appli , of the land application : volved 7.5' topographic	ed, provide water volur area.	ess engineered plans including the, include dimensions (L, W, E	this info have b	peen d dime
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API Number 47 - 035	;	_ 00918	
Operator's Well No. Ri	pley 7	344	7

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS GROUNDWATER PROTECTION PLAN

Operator Name: Columbia Gas Transmission, LLC	
atershed (HUC 10): Mud Run of Sandy Creek	Quad: Sandyville
arm Name: Mesek, Steven & Alta C.	
List the procedures used for the treatment and discharge o groundwater.	of fluids. Include a list of all operations that could contaminate the
No fluids planned to be discharged.	
No fertilizer will be stored on site. Fuel, oil, and I secondary containment. Spills from construction well fluids are the only possible source of contant fluids to be stored in tanks.	
Describe procedures and equipment used to protect ground	dwater quality from the list of potential contaminant sources above.
HELE (1) 마스트 스테이트 에트리 시간에 보면 이번 보면 보다는 여러를 다면하고 있다. 이번 보면 되었다. 이번 시간에 제공하고 있는데 하고 있는데 얼굴을 다면 하는데 되었다.	will be monitored and inspected daily for leaks. e secondary containment under all leak paths.
List the closest water body, distance to closest water bo discharge area.	dy, and distance from closest Well Head Protection Area to the
Mud Run - 0.13 miles. 5.9 miles from WHPA (Ravenswood Municipal 4.7 miles from ZPC (City of Ripley).	l Water Works).
. Summarize all activities at your facility that are already reg	gulated for groundwater protection.
N/A	
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	SEP 13 2
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5. Discuss any existing groundwater quality data for your facility or an adjacent property.

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Rev.	5/1	6

Page 2 of 2

API Number 47 - 035 - 00918

Operator's Well No. Ripley 7344

N/A					
Provide a state	ement that no waste m	naterial will be used for	or deicing or fill material	on the property.	
No waste ma	aterial will be use	ed for deicing or	fill material on the p	property.	
provide directi	on on how to prevent	groundwater contan	nination.	the employees. Job proce	
	•				

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 lubrications will be stored on site, but located within secondary containment. Construction and well servicing equipment will be monitored and inspected daily for leaks or spill.

Signature:

Date:

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### STATE OF WEST VIRGINIA DEPARTMENT OF HEALTH AND HUMAN RESOURCES

Bureau for Public Health Office of Environmental Health Services

Bill J. Crouch Cabinet Secretary Catherine C. Slemp, MD, MPH Commissioner & State Health Officer

August 27, 2019

Mr. Brad Nelson Well Engineering & Technology 455 Racetrack Road Washington, PA 15301

> Re: Data Request for Public Drinking Water Locations Near Ripley 7344 (38.8862, -81.6884) & Ripley 7316 (38.8743, -81.6982)

Dear Mr. Nelson:

This letter is in response to the August 8, 2019, data request concerning public drinking water locations near the above referenced sites in Jackson County. Our agency regulates public drinking water and their corresponding source water protection areas. Private drinking water well information is not maintained by this office, however, the Jackson County Health Department may have additional information. This area does not intersect any public water sources or source water protection areas on record. Your location is approximately 6 miles southeast and upstream from the public drinking water Well Head Protection Area for Ravenswood Municipal Water Works (WV3301810). Your location is approximately 4 miles northeast of the public surface water intake and zone of critical concern for the City of Ripley (WV3301811).

Well Name	Distance	PWSID	System Name
Ripley 7344	5.9 mile from WHPA	WV3301810	Ravenswood Municipal Water Works
Kipley 7344	4.7 miles from ZPC	WV3301811	City of Ripley
	6.2 mile from WHPA	WV3301810	Ravenswood Municipal Water Works
Ripley 7316	3.8 miles from ZCC	WV3301811	City of Ripley

The West Virginia Department of Health and Human Resources provides a map viewer for the public to access a collection of data including delineated source water protection areas and reported potential contaminant sources. This viewer contains data that has been deemed publicly available by the West Virginia Division of Homeland Security and Emergency Management. It should be noted that we are making this data available solely as public service. As a disclaimer, this data was acquired from multiple federal and state sources, is updated periodically and maintained by the individual sources. Any questions will have to be directed to the responsible agency. The public map viewer can be found here: <a href="https://oehsportal.wvdhhr.org/wvswap/index.html">https://oehsportal.wvdhhr.org/wvswap/index.html</a>.

Sincerely,

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Office of Oil and Gas

Brian A. Carr, P.G., Program Manager

Source Water Assessment and Protection SFP 1 3 2010



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