

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

Thursday, July 9, 2020 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 RIPLEY 7346 47-035-00914-00-00

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: RIPLEY 7346

Farm Name: BONTO, THELMA - WIDOW

U.S. WELL NUMBER: 47-035-00914-00-00

Vertical Re-Work Date Issued: 7/9/2020



PERMIT CONDITIONS

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

CONDITIONS

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

WW - 2B (Rev. 8/10)

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

		<u>V</u>	VELL WORK PEI	RMIT APPLIC	CATION			
1) Well Operato	or: Colur	nbia Gas	Transmission, LL	C 307032	Jackson	Ravenswood	Ripley, V	VV
				Operator ID	County	District	Quadra	angle
2) Operator's V	Vell Numb	er: Ripley	7346	-	3) Elevation:	624.2'		
4) Well Type: (a	a) Oil	or Ga	as X					
(t	o) If Gas:	Produ	ction / Und	erground Sto	rage X			
		Deep) X / SI	hallow				
6) Proposed To 7) Approximate	otal Depth fresh wa	: <u>4952'</u> ter strata	: Oriskany Feet Fa depths: None reported by drille	Formation at F	Proposed Total	get Depth: 48 al Depth: Orisk	835' :any	 -
9) Approximate	coal sea	m depth:	S: None reported b	y driller in 1956				
10) Approximat	e void de	pths,(coa	al, Karst, other):	None reported b	by driller in 1956		REC	EIVED
5			s tributary to acti	ve mine? N	0.		Office of C	0 2020
an 2 or a tabing.	Log the We	ii. i ciioiiii	nd fracturing methor	. Ito-periorate c	Jilakariy Storage	20116.		artment o al Protec
ossibly acidize (1	000 gals H	CI) and/or	fracture stimulate (4	100 bbls fluid/25	000 lbs sand) d	epending on log	g results.	
13)			SING AND TUB		<u>AM</u>			
TYPE S	PECIFIC	ATIONS	Г	FOOTAGE	INTERVALS	CEMEN	<u>1T</u>	
	<u>Size</u>	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu.	<u>Ft.)</u>	
Conductor	13-3/8"	?	48	53'	53'	25 sx Cal	-Seal	
	0 5/0"	_	0.0	10041	10011	4-5		

	Size	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13-3/8"	?	48	53'	53'	25 sx Cal-Seal
Fresh Water	9-5/8"	?	36	1981'	1981'	150 sx
Coal				,		
Intermediate	7"	?	23	4839'	4839'	No record of cement
Production	4.5"	N-80	11.6	4912'	4912'	225 sx
Tubing	2-3/8"	J-55	4.6		4927'	
Liners						

Packers: Kind: N/A

Sizes:

Depths Set

7" casing: No record of primary cement but cement bond log indicates cement top at 4150 ft.

Form OC-2

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS DIVISION

WELL DRILLING PERMIT

			Permit No	JAC-914
		MAY	10,	, 19 .5 6
O UNITED FUEL GAS COMPANY Well Operator	LOCATION	OF WELL:		
P. O. BOX 1273	v	RAVENSW	OOD	DISTRICT
CHARLESTON, WEST VIRGINIA		JACKSON	***************************************	COUNTY
	WELL No.	x-59- 73	46	
		PETER F	. BONTO ET	AL FARM
The Department of Mines received your Notice and APRIL 56			above on the	OTHday of
Ten days having expired since the receipt of Notice are collapsed operators, or the Department of Mines, the location accordance with the several provisions of Chapter 22, Code and more particularly as indicated on the Plat on file with	nd Plat and no is approved a of 1931, the	objections hand permission Well to be r	aving been made n is granted you	by the coal owners, a to drill strictly in
This Permit is assignable either by separate instrument ght to drill therefore at said location, but no such assignment with the Department of Mines a certified, or sworn inch assignment was made.	nent shall enti	tle the assign	ee to drill therea	t until he shall have
In case the well is not commenced within four mont urther force or effect.	hs from the a	bove date, ti	nis Permit shall	expire and be of no
		JU	LIUS C. OLZ	ZER
	1	hira	A.L	Department of Mines RECEIVED Office of Oil and
		Adr	ministrativ	e AssistantAPR 20 20

Shale & Shells

2503

3255

United Fuel Gas Company

SERIAL WELL NO. 7346 LEASE NO.__52319 MAP SQUARE 58-95 RECORD OF WELL NO. CASING AND TUBING on the TEST BEFORE SHOT SIZE WEIGHT USED IN LEFT IN 12 /10 of Water in 7" 23# inch Peter S. Bontoetakarm of 102 Acres in Ravenswood 13 District 48 53 53 /10 of Merc, in____ Volume 1,494.000 9-5/8" 36 2109 1981 Jackson County Cu. ft. State of: West Virginia 7" 23 5089 4839 TEST AFTER SHOT Field: Northern Division 211 4.6 5281 4917 /10 of Water in ____inch 19 56 Rig Commenced May 3. /10 of Merc. in ____inch Rig Completed May 7, 19 56 Volume____Cu. ft. 19 56 Drilling Commenced May 7, -----Hours After Shot 19 56 June 14, Drilling Completed Rock Pressure_____ Drilling to cost per foot Date Shot __ Contractor is Delta Drilling Co Size of Torpedo_____ Address: Pittsburg, Pa. SHUT IN Oil Flowed_____bbls. 1st 24 hrs. Date__ Oil Pumped____bbls. 1st 24 hrs. Tubing or Driller's Name Evert Price ____in. Casing Size of Packer_None P.G. Hancock Well abandoned and Bill Ditman Kind of Packer____ Plugged ______19 ____ 1st. Perf. Set____from_ Elevation: 2nd Perf. Set _from. DRILLER'S RECORD FORMATION TOP BOTTOM THICKNESS REMARKS 0 Shale 1235 Sand & Shale 1235 1417 1417 1475 Sand Sand & Shale 1475 1519 1519 1556 Sand & Sandy Lime Sand 1556 1668 Shale 1668 1683 Lime 1683 1827 1875 Sand 1827 Shale & Sand 1875 1900 Hard Shale & Sand 1900 1953 Shale 1969 1953 Office of Oil and Gas Lime & Shale 1969 1983 Shale 1983 2315 APR 2 0 2020 Lime 2315 2325 WV Department of Environmental Protection Shale 2325 2503

MAP SQUARE 58-95

		DRILL	ER'S RECORD	
FORMATION	ТОР	воттом	THICKNESS	REMARKS
Shale	3255	3590		
Shale & Shells	3590	4012		-
Shale	4012	4722		
Lime	4722	4835		
S _a nd	4835	4894		
Total Depth	4894			\$
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/				WV Department of Environmental Protection
7.				Seed 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Ripley - 07346						7	AFM (psig): 7,957	7,957		CAP	Rankin	CAP Ranking: 4,210
Field Name	Well Number Redlined By	Redlined By	Redlined Date	Comments	ents							
RIPLEY	07346	Amos	4/10/2012									
Operating Area		Maximo Number	API Number	Lease	Lease Name:			Spud Date	Acerage	TVD (ft)	MD (ft) Dat	Datum Reference
ST. ALBANS	,	SW-031207346	47035009140000		P. F. Bonto, Et Al			6/1/1956	102	4,952 4,	4,952	
Township/Tax District	Tax Number	County	State Latitude (DD		Longitude (DD)	Section #	Lot #	State Permit Line #	Line #	Line Length Lease #		Inventory Map
RAVENSWOOD	351502	Jackson	WV 38.8739			58-95			7346	906		#300N/440E
Well Classification	Storage Well	Key Well	Group Suk	SubGroup	Completion Type	-	Est. Deepest FW (ft)		Ground Elevaiton (ft)		vatio	(ft)
ACTIVE	Yes	No										
Direction To Well												
Landowner Restrictions	ictions											
Comments												

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and fording				ALIN	Arivi (psig): 7,957	/cs,	CAP Kanking: 4,210
Velihead							
Inst	Install Date Make	Flow String (in)	Support String (in)	Flow String (in) Support String (in) Working Press (psi) Connection Tubing Hanger Comments	Connection	Tubing Hanger	Comments
API Wellhead 11/8	11/8/1993 National	4.50	7	3000	2-3/8"	>	

							7					(C)				S	Ę.	ē	_	Γ		Γ	T
	Comments								Comments	25 sx Cal-Seal.	Records indicate primary cement job but no volume documented.	1993 CBL indicates cement top at approx 340 ft - free point indicates	pipe free down to 314 ft. Sqz cmt'd thru perfs at 278 ft with 150 sx	during recondition in 1993 - cement circ'd to surface.	Backed-off.	No record of primary cement job when drilled but 1993 CBL indicates	cement top at approx 4150 ft. 1993 free point indicated pipe free down	to 3240 ft but could not circulate through sqz perfs at 3194' - squeeze	cmt job aborted.	Re-ran and screwed back together.	Cmt'd primary with 225 sx. CBL indicates cement top at 2490 ft.		
								(pe	Cmt'd	>	>					٨					\		
	ess. (psi)							een pulle	Thread														
	Working Press. (psi)	3,000	3,000	3,000	3,000			ns in ITALICS have been pulled)	Grade												N-80		
	Size (in)	00.	00.	2.00	00.	.00		ms in ITAL	Wt (#/ft)	48.00	36.00				23.00	23.00				23.00	11.60	4.60	4.60
	е	4.(4.(2	2.0	es 2.0		ole - Iter	Bottom (ft)	53	1,981				1,013	4,839				1,013	4,912	4,917	4,927
	Make	Custom	Custom	Custom	Custom	KF Industries		e still in ho	Top (ft) B	0	0				0	1,013				0	0	0	0
	Type	Gate	Gate	Gate	Gate	Ball		Downhole Components (Items in BOLD are still in hole	OD (in) Description	13.375 Drive Pipe	9.625 Surface Pipe				Casing	Casing				Casing	Casing	Tubing	Tubing
	Installed	11/8/1993 G	11/8/1993 G	11/8/1993 G	11/8/1993 G	11/8/1993 B		nts (Item	OD (in)	13.375	9.625				7.000	7.000				7.000	4.500	2.375	2.375
		11/8	11/8		11/8	11/8		Componer	Pulled						11/2/1993							10/24/1993	
Valves	Description	Sales	Side Valve	Tubing Master	Tubing Arm	Annular		Downhole	Run	6/1/1956	6/5/1956				6/10/1956	6/10/1956				11/7/1993	11/11/1993	6/15/1956	1/1/1994

Formations					
Formation		Top (ft)	Bottom (ft)	Fluid Shows	Comments / Log Reference
Drillers Log of Formations					
Shale		0	1,235		
Sand, Shale		1,235	1,417		
Sand		1,827	1,875		
Onondaga Limestone		4,722	4,835		
Oriskany Sandstone		4,835	4,894		
TD		4,894	4,894		
DDTD		4,952	4,952		
Elog Formation Tops					
Sand					
рото		0			
Oriskany Sandstone ∑ ≶	ΑF	ffic			
Logger's TD	R	RE			
Onondaga Limestone	9	CE			
Shale	0	IVE			
Sand, Shale	20	ED nd			
Monday, January 13, 2020 uo	20	Gas			Page 2 of 9

Ripley - 07346

Kipley - 07346 08/15/1996 Multi-Point	0.0927	0.7640	145	-3.42		1,263 7,927		AFM (psig): 7,957	195,	<i>3</i>	CAP Kanking:	ng: 4,210
П												
06/15/1956 Single-Point						$\frac{1}{2}$						
Notes												
Date Category							Detail					Added by
6/1/1956 Note 12/15/1993 9 5/8 sque 1956 comp 11/5/93 7 11/10/93 4 12/3/93 se	ezed from 15i oletion report : attempted to s 1/2 cementer rvice rig repor	Note Historical Well Notes 9 5/8 squeezed from 150 to surface 11/3/93 1956 completion report shows 950 sacks cement used, strings not specified 11/5/93 7 attempted to squeeze would not circulate 3193-3195 2spf 11/10/93 4 1/2 cemented from 4912 to 2700 with 225 sacks standard, calseal, kci 12/3/93 service rig report well perfed tried to frac screened off	Vell Notes 73/93 ks cement in not circulate 2700 with 2 ed to frac si	used, string e 3193-319 25 sacks s creened of	gs not spe 35 2spf standard, o	cified calseal, kci						bubernak
7/20/2009 Operations 07/20/2009 This well has	ns as been remo	Removed as key well oved as a key well out	s key well	l 's inconsis	tant press	ures. I will ch	oose a new key	Operations Removed as key well This well has been removed as a key well due to it's inconsistant pressures. I will choose a new key well for this withdrawal season. Bubernak.	Irawal seasor	. Bubernak.		bubernak
Logs												
API Neutron	10/28/1993	Log TD:			SCHLU	SCHLUMBERGER						
API Neutron	09/30/1981	Log TD:			SCHLU	SCHLUMBERGER						
Cement Bond	11/15/1993	Log TD: 4875	1875		SCHLU	SCHLUMBERGER						
Problem	WIAT Burst	Baker Burst	Len(")			Metal Loss Details	Details		Fixed Comments	ents		
Free Pipe				2,330	2,490							
Partial Quality Good Quality				4,400	4,400							
Cement Bond	11/02/1993	Log TD: 980	180		WESTE	RN ATLAS I	WESTERN ATLAS INTERNATIONAL					
Problem	WIAT Burst	Baker Burst	Len(")	Top (ft)	Bot (ft)	Metal Loss Details	Details		Fixed Comments	ents		
Free Pipe		\vdash							Poor lc	g quality		
Good Quality				340	850				Poor lc	Poor log quality		
Partial Quality				850	980				Poor lc	Poor log quality		
APR 2 0 202 WV Department Environmental Prot	RECEIVED Office of Oil and						-					
Monday, January 13, 2020	Gas											Page 4 of 9

Ripley - 07346							AFM (psig): 7,957	7,957	CAP Ranking: 4,210
Cement Bond	10/27/1993	Log TD: 4800	00		SCHLU	SCHLUMBERGER			
Problem	WIAT Burst	Baker Burst	Len(")	Top (ft)	Bot (ft)	Metal Loss Details		Fixed Comments	
Free Pipe				100	4,300				
Poor Quality				4,300	4,380				
Good Quality				4,380	4,410				
Poor Quality				4,410	4,650				
Partial Quality				4,650	4,765				
Good Quality				4,765	4,800				
Differential Temperature	09/30/1981	Log TD:			SCHLUI	SCHLUMBERGER			
Gamma Ray	09/30/1981	Log TD:			SCHLUI	SCHLUMBERGER			
Lithology density	10/28/1993	Log TD:			SCHLUM	SCHLUMBERGER			
OH Neutron	11/15/1993	Log TD:			SCHLUM	SCHLUMBERGER			
Other	10/28/1993	Log TD:			SCHLUM	SCHLUMBERGER			
Sonic	10/28/1993	Log TD:			SCHLUN	SCHLUMBERGER			

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Date Press Pickup Press Code Press 04/28/2017 0 1287 0 1387 06/26/2017 0 1402 0 1402 08/24/2017 0 1438 09/34/2017 1438 09/34/2017 0 1438 1438 09/34/2017 0 1342 10/23/2017 0 1342 01/17/2018 350 0 1342 01/17/2018 350 0 1086 03/14/2018 350 0 1086 04/16/2018 1482 0 1040 04/16/2018 1482 0 0 08/27/2018 1482 0 0 09/10/2018 1482 0 0 10/11/2019 1482 0 0 09/10/2018 1482 0 0 09/10/2019 1482 0 0 01/12/2019 1482 0 0 <td< th=""><th>Reading</th><th></th><th>Minute</th><th>"</th><th>Shut In</th><th>Annual Test Data</th><th>ata</th><th></th><th></th><th></th></td<>	Reading		Minute	"	Shut In	Annual Test Data	ata			
1287 1286 WHITBO 4078-1877 1402	٥	late Press	Pickup	Press Code	Press 24 hr	72 hr	144 hr	WO Number	Updated By	Update Date
1342 1342 1342 1344 1345	04	4/28/2017		0	1287	1256	WHITBO	40781877		
1986 1985 WHITBO 41008943 1981 1440 1981 1440 1981 1440 1981 1440 1981 1440 1981 1440 1981 1440 1981 1440 141081 141384 LYNN LY	90	5/26/2017			1342		WHITBO	40824691		
1386 1438	0.	7/24/2017		0	1402		WHITBO	40989493		
1438 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 1440 14181080	30	3/24/2017		0	1395		WOOBR	41010902		
1440 OBREND 4113894 LYNN	30	9/19/2017			1438	G27	WHITBO	41097761		
1438 1438 14180 1418109 14	10	3/26/2017				1440	OBRIEND	41113884	LYNN	6/20/2018
MHTBO 4118100 1381 MHTBO 4118100 1381 MHTBO 4129145 138021 1380 1381 MHTBO 4129145 138021 1380 1380 MHTBO 4129621 138021 1380 MHTBO 4129621 138021 1380 MHTBO 41429144 1380214 1380214 138021 1380 MHTBO 41429144 1482146 1380214 138021 1380 MHTBO 41429144 1482146 1482146 1482146 1482914 1482146 1492146 1492914 14929	10	7/23/2017			1438		OBRIEND	41139917		
1342 WHITBO 41219345 WHITBO 4121945 WHITBO 4129651 WHITBO 41306021 WHITBO 4142148 WHITBO 4142148 WHITBO 4142148 WHITBO 4142048 WHITBO WHITBO 4142048 WHITBO	11	1/27/2017		0	1381		WHITBO	41181080		
1086 1086 WHITBO 41258631	12	2/26/2017		0	1342		WHITBO	41219745		
350 712 WHITBO 41305032 350 0 1040 WHITBO 41305044 1880 1080 WHITBO 4142148 1880 0 WHITBO 4142148 1475 0 WHITBO 4142148 1475 0 WHITBO 4143142148 1475 0 41536048 41536048 1475 0 41536048 41536048 1475 0 WHITBO 41536048 41536048 1482 0 WHITBO 41536048 41738036 1482 0 WHITBO 41631692 41738036 1482 0 WHITBO 41631693 41738036 1482 0 WHITBO 4173813 4173813 1085 0 WHITBO 41858210 4173812 1085 0 WHITBO 41858210 41858210 1440 0 WHITBO 41858210 41858210 1480 0	0	1/17/2018		0	1086		WHITBO	41259631		
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1040 1040 1040 1040 1040 1040 1040 1040 1040 1040 1040 1040 1040 1040 1040 1040 1042148 10	03		0.	0			WHITBO	41358547		
1864 WHITBO 41421804 WHITBO 4142148 WHITBO 41482148 WHITBO 41482148 WHITBO 41482148 WHITBO 41580375 WHITBO 41580375 WHITBO 41580375 WHITBO 41580375 WHITBO WOOBR 41687209 WOOBR 41738759 WHITBO 41738759 WHITBO WHIT	04	1/16/2018		0	1040	1040	WHITBO	41393214	LYNN	6/27/2018
1380 0 WHITBO 41482148 1475 0 MHITBO 41482048 1476 0 MHITBO 41536048 1545 0 MODBR 41636048 1545 0 MODBR 416360375 1482 0 MODBR 41637692 1482 0 MODBR 41713691 1482 0 MODBR 41713691 1482 0 MODBR 41713679 1482 0 MUHITBO 4181754 1482 0 MHITBO 4181754 1482 0 MHITBO 4181754 1480 0 MHITBO 4181754 1480 0 MHITBO 485.8W-0312 1480 0 MHITBO 4181754 1480 0 MHITBO 418176HBB 1480 0 MHITBO 418176HBB 1480 0 MHITBO 418176W-0312 1480 0 MH	04	1/16/2018			864		WHITBO	41421804		
1380 0 WHITBO 41536048 1475 0 WHITBO 41536037 1550 0 MWHITBO 4153182 1545 0 MWOOBR 4163182 1482 0 MWOOBR 41715889 1482 0 MWOOBR 41775891 1163 MWOOBR 41775891 1163 MWHITBO 41775891 1163 MWHITBO 4177581 1165 MWHITBO 41775821 1166 MWHITBO 41775821 1176 MWHITBO 41775812 1186 MWHITBO 485-SW-0312 1180 MWHITBO 275-SW-0312 1180 MWHITBO 275-SW-0312 1180 MWHITBO 485-SW-0312 1160 MWHITBO 474-SW-0312 1160 MWHITBO 991-SW-0312 1160 MWHITBO 991-SW-0312 1160 MWHITBO 991-SW-0312 1160 MWHITBO 991-SW-	90	5/22/2018	×		1080		WHITBO	41482148		
1475 0 MHITBO 41580375 1550 0 0 41631692 41631692 1545 0 1472 MODBR 41631692 41631692 1482 0 1472 MODBR 41715699 DASTGHEIB 1163 0 1472 MODBR 41778913 A177876 1163 0 0 1472 MHITBO 41778913 A177876 1168 0 0 0 41778913 MHITBO 4187546 A177876 1168 0 0 0 0 4187546 A177876 A177876 A177876 A177876 A177876 A177876 A177876 A177876 A177876 A1778776 A1778776 A1778776 A1778776 A1778776 A1778776 A1778776 A17787776 A177877776 A17787777777777777777777777777777777777	90		0:	0			WHITBO	41536048		
1550 0 A BATCH_HR 41631692 1545 0 1472 WOOBR 41631692 1482 0 1472 WOOBR 41631692 1482 0 41728159 BASTGHEIB 1162 0 WHITBO 41738759 1162 0 WHITBO 41738759 1168 0 WHITBO 41817546 1140 0 WHITBO 41817546 1140 0 WHITBO 41858210 1140 0 WHITBO 41858210 1140 0 WHITBO 275-8W-0312 1140 0 WHITBO 275-8W-0312 1140 0 WHITBO 202-8W-0312 1140 0 WHITBO 202-8W-0312 1140 0 WHITBO 202-8W-0312 1140 0 WHITBO 202-8W-0312 1140 0 WHITBO 203-8W-0312 1140 0 WHITBO 3	07		.2	0			WHITBO	41580375		
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	01	1/08/2020					WHITBO	674-SW-0312		

AFM (psig): 7,957

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Monday, January 13, 2020 🚊

Ripley - 07346	91	AFM	AFM (psig): 7,957 CAP Ranking: 4,2	4,210
Jobs				
Program Yr / Date	Type of Work	Field Engineer	Responsible Entineer Rig	
1990	Wellhead Changes	Not Specified	Not Specified	
10/20/1993	TOOK SAMPLES FROM WATER WELLS OF SURROUND- ING DWELLINGS, WELLHEAD PRESSURE : 1500 PSIG KILLED W ELL W /219 BBLS OF 3% KCL FLUID, CIRCULATED 200 BBLS, SHUT WELL IN.	ING DWELLINGS, WELLHEAD PRESS WELL IN.	SURE : 1500 PSIG KILLED W ELL W /219	
10/21/1993	TUBING PRESSURE: -0- PRESSURE ON 7X2-3/8" ANNULUS: 20 PSI. BLED PRESS. TO ATMOSPHERE LOADED H OLE W /4-1/2 BBLS 3% KCL FLUID. BROKE OUT WELL CELLAR & 2 LAYERS OF CON- CRETE PAD. SHUT WELL IN.	ILUS: 20 PSI. BLED PRESS. TO ATMOS : CON- CRETE PAD. SHUT WELL IN.	SPHERE LOADED H OLE W /4-1/2 BBLS 3%	
10/22/1993	HAULED GRAVEL, LOADED HOLE W/36 BBLS OF 3% KCL FLUID, CRIBBED UP WELL CELLA R, RIGGED UP RIG, NIPPL ED DOWN TUBING VALVE, NIPPLED UP BOP & TESTED, PULLED 62 JTS (1939.60) OF 2-3/8" 10 RD TBG., SHUT WELL IN.	2L FLUID, CRIBBED UP WELL CELLA R, 939.60') OF 2-3/8" 10 RD TBG., SHUT W	, RIGGED UP RIG, NIPPL ED DOWN TUBING JELL IN.	
10/25/1993	PULLED 2943.9' OF 2-3/8" TUBING. TOTAL PULLED: 4883.5' (157 JTS.). T.I. H. W/6-1/8 IN. BIT, DRIL L COLLARS & TUBING TO 4870', WELDED FLOWLINE. LOADED HOLE W/51 BBLS OF KCL FLUID, SHUT WELL IN.	33.5' (157 JTS.). T.I.H. W/6-1/8 IN. BIT, [3.L FLUID, SHUT WELL IN.	DRIL L COLLARS & TUBING TO 4870',	
10/26/1993	LOADED HOLE W/55 BBLS OF 3% KCL FLUID, CIR- CULATED & CLEANED OUT 27' OF FIL L. DRILLED HOLE FRO M 489 7'-4925' CIRCULATING OUT WOOD & RUBBER WHILE CIRCULATING LAST ADDITIONAL 16 BBLS OF FLUID, SHUT WELL IN.	ATED & CLEANED OUT 27' OF FIL L. D TING LAST ADDITIONAL 16 BBLS OF FI	IRILLED HOLE FRO M 489 7'-4925', LUID, SHUT WELL IN.	
10/27/1993	LOADED HOLE LW/9 BBLS OF 3% KCL FLUID, DRILLED HOLE TO DEPTH OF 4952', CIRCULATED & CLEANE D HOL E, LOST 25 BBLS OF FLUID TO THE FORMATION, SHUT WELL IN.	HOLE TO DEPTH OF 4952', CIRCULATE	ED & CLEANE D HOL E, LOST 25 BBLS OF	
10/28/1993	LOADED THE HOLE W/30 BBLS KCL FLUID; P.O.O.H. W. SHUT IN.	TUBING & BIT. SCHLUM BERGER RAN	W/TUBING & BIT. SCHLUM BERGER RAN A CEMENT BOND LOG ON THE 7" CSG.,	
10/29/1993	LOADED HOLE W/9 BBLS FLUID, RAN GAMMA RAY NEUTRON LITHODENSITY LOG ON THE OPEN HOLE SECTION FROM 4770'-4930', RAN A SONIC LOG FROM 4930'-3930', WAITING FOR CORING TRUCK.	JTRON LITHODENSITY LOG ON THE OF 3 TRUCK.	PEN HOLE SECTION FROM 4770'-4930', RAN	
11/01/1993	LOADED HOLE W/25 BBLS FLUID. RIGGED UP & RAN IN HOLE SCHLUMBERGER CORING TOOL, CUT 15 SIDEW ALL C ORES & PULLED OUT OF HOLE, RIGGED UP & RAN IN HOLE BAKER WIRELINE SET 7" RET. B/P & SET @4680', DUMPED 20' OF SAND ON PLUG. ATTEMPTED TO UNSCREW TUBING HEAD FROM 7" CSG. TO NO AVAIL. SHUT WELLIN.	N HOLE SCHLUMBERGER CORING TOC RELINE SET 7" RET. B/P & SET @4680', G. TO NO AVAIL. SHUT WELLIN.	OL, CUT 15 SIDEW ALL C ORES & PULLED DUMPED 20' OF SAND ON PLUG.	
11/02/1993	REMOVED TUBING HEAD, PULLED 130,000# ON 7" CASING TO RELEASE SLIPS; WOULD NOT RELEASE. REINFORC ED RI G FOUNDATION W/A STEEL BASE BEAM. CUT BOWL AROUND SLIPS TO RELEASE, ATLAS NIPPLED UP TO 7" CSG. & FREEPOINTED, 7" CASING FREE @3240', STRING SHOT 7" CSG. @1,000' & BACKED OFF, SHUT WELL IN.	ING TO RELEASE SLIPS; WOULD N OT OUND SLIPS TO RELEASE, ATLAS NIP! & BACKED OFF, SHUT WELL IN.	r release. Reinforc ed RI G PLED UP TO 7" CSG. & FREEPOINTED, 7"	
11/03/1993	PULLED & LAID DOWN 1013' OF 7" 23#/FT, CSG, ATLAS RAN A CEMENT BOND LOG ON T HE 9-5/8" CSG, FRO M 980 '-SURFACE, FREEPOINTED 9-5/8"; 100% FREE @314', PERFORATED 9-5/8" CSG, FROM 278'-280' W/2 SHOTS/FT. WAITING FOR 9-5/8" CASING JOINT TO BE CUT & THREADED.	RAN A CEMENT BOND LOG ON T HE 9 9-5/8" CSG. FROM 278'-280' W/2 SHOT	9-5/8" CSG. FRO M 980 '-SURFACE. TS/FT. WAITING FOR 9-5/8" CASING JOINT	
11/04/1993	T.I.H. ON TBG. A 9-5/8" BAKER RET. BRIDGE- PLUG & SET @506', T.O.O.H. ATTE MPTED TO BACK OFF TOP JT. OF 9-5/8" CSG; WOULD NOT BACK OFF. ATLAS RAN IN HOLE TO TOP COLLAR @13' & STRING SHOT SAME, PULLED OUT OF HOLE T.I.H. W/9-5/8" CSG. SPEAR & SET IN 2ND JT. ATTEMPTED AGAIN TO BACK OFF TOP JT; WOULDNOT BACK OFF. ATTEMPTED TO RELEASE SPEAR, WOULD NOT RELEASE. ATTEMPTED TO TORQUE UPSPEAR & PUSH DOWNHOLE TO RELEASE, WOULD NOT	ET @506', T.O.O.H. ATTE MPTED TO B @13' & STRING SHOT SAME, PULLED P JT; WOULDNOT BACK OFF. ATTEM! H DOWNHOLE TO RELEASE, WOULD N	SACK OFF TOP JT. OF 9-5/8" CSG; WOULD OUT OF HOLE T.I.H. W/9-5/8" CSG. SPEAR PTED TO RELEASE SPEAR,WOULD NOT NOT	
11/04/1993	RELEASE. NIPPLED UP POWER SWIVEL & TORQUED STRING & T.O.O.H. W/SPEAR. DUMP ED 20' OF SAND ON BRIDG E PLUG ESTABLISHED CIRCULAT-ION AROUND THE 9-5/8" CSG. & SQUEEZE CEMENTED, CEMENT RETURNS TO THE SURFACE.	STRING & T.O.O.H. W/SPEAR. DUMP E 3. & SQUEEZE CEMENTED, CEMENT R	ED 20' OF SAND ON BRIDG E PLUG, RETURNS TO THE SURFACE.	
11/05/1993	RIGGED UP & RAN IN HOLE W/8-1/2" BIT ON TUBING, TAGGED CEMENT @446', DRI LLED OUT 40 FT. OF C EMENT OF E BRIDGE PLUG, T.O.O.H. W/RET. HEAD ON TBG. TO 506', RELEASED & T.O.O.H. W/9-5/8" BRIDGE PLUG.	AGGED CEMENT @446', DRI LLED OUT BG. TO 506', RELEASED & T.O.O.H. W/(, TAGGED CEMENT @446', DRI LLED OUT 40 FT. OF C EMENT , CIRCULATED SAND N TBG. TO 506', RELEASED & T.O.O.H. W/9-5/8" BRIDGE PLUG. SHUT WELL IN.	
11/08/1993	RE-RAN THE ORIGINAL 1013' OF 7" CSG, SCREW- ED 7" CSG. BACK TOGETHER W/4500/ FT./# TORQUE, PULLE D 50,000# ON 7" CSG., ATLAS PERFORATED 7" CSG. FROM 3193-3195' W/2 SHOTS/FT, BROKE CIRCULATION W/250 PSI W/MUD PUMP. HALLIBURTON ATTEMPTED TO CIRCULATE, WOULD NOT CIRCULATE, SHUT WELL IN.	"CSG. BACK TOGETHER W/4500/ FT./# IOTS/FT, BROKE CIRCULATION W/250 I , SHUT WELL IN.	# TORQUE, PULLE D 50,000# ON 7" CSG., PSI W/MUD PUMP. HALLIBURTON	
11/09/1993	NIPPLED UP CASING SPOOL, CUT & DRESSED 7" CSG. & INSTALLED PRIMARY & SECON DARY PACK- ING. NI PPLED UP ADAPTER FLANGE & BOP & TESTED. T.I.H. W/7" RETRIEVING HEAD TO TOP OF THE SAND @4660', SHUT WELL IN.	& INSTALLED PRIMARY & SECON DAF AD TO TOP OF THE SAND @4660', SHI	RY PACK- ING. NI PPLED UP ADAPTER UT WELL IN.	
11/10/1993	CIRCULATED SAND OFF BRIDGE PLUG, PULLED EQUALIZING PRONG IN BRIDGE PLUG & CIR-CULATED, RELE ASED BRIDGE PLUG & PULLED OUT OF HOLE, CHANGED RAMS IN BOP, T.I.H. WITH GUIDE SHOE & LATCH DOWN BAFFLE ON NEW 4-1/2 IN. 11.6#/FT. N80 CSG. TO A DEPTH OF 1408'.	LIZING PRONG IN BRIDGE PLUG & CIR WITH GUIDE SHOE & LATCH DOWN B	k- CULATED, RELE ASED BRIDGE PLUG & AFFLE ON NEW 4-1/2 IN. 11.6#/FT. N80	
11/11/1993	FINISHED RUNNING 4-1/2" CSG. TO TD OF 4912' (GL) HALLIBURTON CIRC CEMENTED SAME FROM TD TO 2700' W/CLASS A CEMENT W/ ADDITIVES.	HALLIBURTON CIRCULATED 80 BBLS OF CORR. IN HIB. BEHIND 4-1/2" CSG::MENT W/ ADDITIVES.	F CORR. IN HIB. BEHIND 4-1/2" CSG &	
11/12/1993	W.O.C.	Of		
11/16/1993	.NT BOND LOG ON 4-1/2 O FRACTURE.	SG. FROM TD 70 2500' JRANGAMM A	RAY NEUTRON LOG O N 4-1/2" FROM TD	
11/17/1993	PREPARING TO FRAC WELL.	Dep		
Monday, January 13, 2020		ED and Gas 0 2020 artment o trail Protes	ED Gas and Gas O 2020 artment o artm	Page 7 of 9

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HALLIBURTON PRESSURED TESTED 4-1/2" CSG. TO 2000 PSI FOR 20 MIN., TESTED OK. SWABBED 75 BBLS FROM 4-1/2" CSG., SHUT WELL IN, READY TO ACIDIZE, PERF & FRAC 11/19/1993

PREPARING TO FRAC 11/22/1993 SPOTTED 500 GAL. OF MSR ACID, FOLLOWED WITH 500 GAL. 3% KCL FLUID IN THE BOT TOM OF 4-1/2" C ASING. ATLAS PERFORATED THE 4-1/2" CSG. FROM 4830′-4850′ W/6 SHOTS/FT. DOWELL LOADED HOLE & BROKE DOWN FORMATION W/3200 PSI, PREMIXED CHEMICALS & FRACED FORMATION W/MAX. OF 6#/GAL. SAND, TOTAL OF 5,000# 20/40 SAND, USED 9,000# OF 20/40 RESIN 12/06/1993

PRESSURE ON THE 4-1/2" CASING: -0- PSIG NIPPLED DOWN THE FRAC VALVE & BO P, CUT 6' OFF 4-1/ 2" CS G. & DRESSED. NIPPLED UP TUB- ING HEAD & SIDE-GATE VALVE, RIGGED UP & RAN IN HOLE 3-7/8" BIT ON 2-3/8" TUBING, TAGGED SAND @4640', READY TO COATEDSAND, TOTAL OF 14,000# OF SAND, SHUT WELLIN, 12/07/1993

DRILLED & CIRCULATED SAND OUT OF 4-1/2" CASING TO A T.D. OF 4890' G.L. PULLED OUT OF HOLE W/BIT & TUBING, SHUT WELL IN. CIRCULATE SAND OUT OF 4-1/2" CASING, SHUT WELL IN. 12/08/1993

NIPPLED DOWN BOP, LANDED TUBING/HANGER IN HEAD, NIPPLED UP ADAPTER FLANGE & VALVES, NIPPLED UP FL OW BACK EQPT, T.I.H. W/WIRELINE RE-ENTRY GUIDE & SEATING NIPPLE ON NEW 2-3/8" 4.6#/FT. 10 RD TUBING TO 4927", NIP PLED DOWN BOP, ATTEMPTED TO NIPPLE UP ADAPTER FLANGE; WRONG THREADS IN ADAPTER, NIPPLED UP BOP, SHUT WELL IN. 12/09/1993 12/10/1993

AND FLOWED ANOTHER 5 BBLS. & DIED OFF. SHUT WELL IN. 12/13/1993

RIGGED UP TO SWAB & SWABBED 35 BBLS OF LIQUID, SHUT WELL IN.

PRESS: 250#, CSG PRESS: 350#, FLOWED WELL BACK; WELL DIED. SWABBED WELL FROM 1800-4700', SHUT IN FOR 1 HR, SWABBED FROM 3200-4200', RECOVERED 75 BBLS FLUID, WELL KICKED OFF, SHUT IN. 12/12TBG. PRESS: 350#, CSG. PRESS: 510#, HITFLUID TBG PRESS: 0#, SWABBED WELL FROM 1550-3800' RECOVERED 60 BBLS OF FLUID, SMAL L SHOW OF GAS, SHU T IN. 12/11: TBG, @1700', SWABBED FROM 1700-4200', RE-COVERED 50 BBLS FLUID. WELL KICKED OFF. 12/13/1993

TUBING PRESS: 475#, CASING PRESS: 575# FLOWED WELL & UNLOADED 20 BBLS O F FLUID, CASING P RESSU RE DROPED TO 475#, SHUT WELL IN TO ALLOW FLUID TO BUILD UP, RIGGED DOWN SERVICE RIG & MOVED OFF LOCATION, WILL MOVE IN ANOTHER SWABBING RIG. 12/14/1993

TBG. PRESS: 280 PSI, CSG. PRESS: 800 PSI, ATTEMPTED TO FLOW WELL, WELL WOU LD NOT FLOW WAITING FOR S WABBING UNIT. 12/15/1993

T.I.H. W/6-1/8" BIT ON DRILL COLLARS & 2-3/8" TUBING TO 4853', CIRCULAT ED OUT FILL $_{ op}$ ROM 485 3'-48 71', DRILLED FROM 4871'-4890', LOST 3 BBLS OF KCL FLUID WHILE DRILLING, SHUT WELL IN. 12/16/1993

TUBING PRESS: 125#, CSG. PRESS: 875#, WAITING FOR SWABBING UNIT. 12/17/1993

WAITING FOR SWABBING UNIT. 12/20/1993 PRESS. ON THE TUBING: 165#, PRESS. ON THE CASING: 1050#, T.I.H. TO SWAB, H IT FLUID @1400', SWABB ED FROM 1400-2800', WELL KICKED OFF & FLOWED ON ITS OWN, PRESSURE ON THE CASING DECREASED TO 300 PSI, WELL STOPPED FLOWING, SWABBED AGAIN FROM 2800'- 4500', RECOVERED A DAILY TOTAL OF 26" OFFLUID, SHUT WELL IN. 12/21/1993

PRESS. ON THE CSG: 450#, PRESS. ON THE TBG: 220#, BLEW WELL DOWN, T.I.H. TO SWAB, HIT FLUID @2 400', FORMATION GIVING UP FLUID AT A RATE OF 400'-500'/HR., SWABBED A DAILY TOTAL OF 35 BBLS, SHUT WELL IN FOR NIGHT. 12/22/1993

PRESS. ON THE CSG: 760#, PRESS. ON THE TBG: 160#, RIGGED UP, RAN IN HOLE TO SWAB, HIT FLUID @1 500', MADE 1 SWAB RUN & WELL KICK- ED OFF & FLOWED FOR 3 HRS, PRESSURE ON THE CASING DECREASED TO 350#, MADE 2 MORE SWAB RUNS, SHUT WELL IN, DAILY TOTAL OF RECOVER- ED FLUID = 50 BBLS., RIGGED DOWN SWABBINGUNIT, MOVED OFF LOCATION. 12/23/1993

RIGGED DOWN SWABBING UNIT, MOVED OFF SITE. 12/27/1993

IDLE. 12/29/1993

12/30/1993

PRESS. ON THE TUBING: 1150#, PRESS. ON THE CASING: 1175#, FLOWED WELL & REC OVERED 30 BBLS OF FLUID , PRESSURE ON THE CASING DECREASED TO 300 PSI, SHUT WELL IN FOR 4 HRS., CASING PRESSURE INCREASED TO 800 PSI. 12/30/1993

TBG. PRESS: 500 PSI, CSG. PRESS: 1125 PSI BLEW WELL DOWN FOR 5 MIN., WELL NOT UN- LOADING FLUID , DROPPED SOAP STICKS, IBG. PRESS: 1050#, CSG. PRESS: 1100#, FLOW- ED WELL FOR 10 MIN. BEFORE UNLOA DING A TOTAL OF 25 B BLS. OF FLUID, CASING PRESSURE DECREASED TO 300#, SHUT WELL IN 01/03/1994 01/07/1994

TUBING PRESS: 640#, CASING PRESS: 1220# FLOWED WELL & RECOVERED 25 BBLS OF FLUID, CASING P RESSU RE DECREASED TO PRESS. ON CSG: 1225#, PRESS. ON TBG: 550# BLEW TOP GAS OFF, WAITED 30 MIN ., WELL DEAD NO FLUID RETU RNS. SHUT WELL IN. 01/11/1994

250 PSI, SHUT WELL IN. 01/13/1994

TUBING PRESS: 730#, CASING PRESS: 1000#, BLEW WELL & RECOVERED 2 BBLS OF FLUID, CASING P RESSU RE DECREASED TO 900#, SHUT WELL IN.

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Ripley - 07346	45M (psia): 7.957 CAP Ranking: 4.210
01/14/1994	01/14/1994 600 PSIG ON TUBING; 1125 PSIG CASING PRESSURE; TRIED TO FLOW WELL; WE LL WOULD NOT FLOW ON I TS OWN; PREPARING TO SWAB WELL.
01/17/1994	TUBING PRESS: 100#, CSG. PRESS: 1100# ATTEMPTED TO FLOW WELL; WOULD NO T FLOW. RIGGED U P SWA BBING UNIT, TAGGED FILL OF FLUID @2200 ON 1ST RUN, TAGGED FLUID @1200' ON 2ND RUN, WELL KICKED OFF, RECOVERED 20 BBLS OF FLUID SHUT WELL IN FOR 1 HR., MADE ANOTHER SWAB RUN, RECOVERED 500' OF FLUID, SHUT WELL IN.
01/18/1994	TUBING PRESS: 630#, CASING PRESS: 860# ATTEMPTED TO FLOW WELL, WELL WOU LD NOT FLOW SWABBED WELL & HIT FLUID @1600', ON 4TH SWAB TRIP WELL KICKED OFF & RECOVERED 17 BBLS OF FLUID, SHUT WELL IN.
01/19/1994	NO ACTIVITY DUE TO WEATHER.
01/25/1994	TBG. PRESS: 925#, CSG. PRESS: 1150#, BLEW THE WELL DOWN IN 35 MIN., ON FIR ST SWAB RUN HIT FLUI D @41 00', ALTERNATELY SWABBED & SHUT WELL IN, RECOVERED 4 BBLS. FLUID.
01/26/1994	TUBING PRESS: 550#, CASING PRESS: 775#, WELL BLEW DOWN FAST, HIT FLUID O N FIRST SWAB RUN @230 0', FLUID IS GAS CUT, RECOVER- ED APPROX. 10 BBLS OF FLUID, RIGGED DOWN SERVICE RIG AND MOVED OFF LOCATION.
01/27/1994	01/27/1994 WORK COMPLETED

RECEIVED Office of Oil and Gas

APR 2 0 2020

Operator's Well Number Ripley 7346

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

P.F. Bonto and Fannie Bonto, his wife, Carrie Priddy, widow

United Fuel Gas Company

Lease No. 1052319-000

Bk. 83 / Pg. 307

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

The permit app licant 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

RECEIVED Office of Oil and Gas

APR 2 0 2020

WV Department of Environmental Protection

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 appropriate aut hority before the affected activity is initiated.

Well Operator:

Columbia Gas Transmission, LLC

James Amos

By:Its:

Team Leader Well Engineering & Technology

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

1). Date: <u>03/18/2020</u>

2.) Operator's Well Number

Ripley 7346

State

County 035 Permit

3.) API Well No.:

47-

00914

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

4)	Surface Owr	ner(s) to be served:	5) (a) Coal Ope	erator
	(a) Name	Michael and Virginia L. Jones	Name	Not operated.
	Address	3927 Parkersburg Road	Address	1
		Sandvville, WV 25275	-	
	(b) Name	Gariavville, VVV 20210	- (h) Coal O	wner(s) with Declaration
	Address		Name	wher(3) with Deciaration
	Address		_	
			Address	
	(c) Name		Name	
	Address		Address	DEGE
			7	Office of Oil and G
6)	Inspector	Joe Taylor	(c) Coal Le	ssee with Declaration
	Address	1478 Clavlick Road	Name	APR 2 0 2020
		Ripley, WV 25271	Address	
	Telephone	304-380-7469	_	Environmental Prote
		TO THE PERSONS NAM	TED ABOVE TA	
	Included is the			acts by which I hold the right to extract oil and gas
OR		o reads or reads or earlier committeeing t		ioto by milion i mora uno nigni to ont act on ama gac
		e information required by Chapter 22,	Article 6, Section	n 8(d) of the Code of West Virginia (see page 2)
				nia Code I have served copies of this notice and
app				igh on the above named parties by:
		Personal Service (Affidavit attach	hed)	
	X	Certified Mail (Postmarked posta	al receipt attache	d)
		Publication (Notice of Publication		
			35 CSR 4, and	agree to the terms and conditions of any permit
issı	ued under this			
				and am familiar with the information submitted on
				y of those individuals immediately responsible for
obt		rmation, I believe that the information		
		re that there are significant penalties	for submitting fal	se information, including the possibility of fine and
ımp	orisonment.	Well Operator	Calumbia Ca	Transmission IIC
				s Transmission, LLC
			James Amos	Wall Engineering & Technology
			48 Columbia	- Well Engineering & Technology
		Address.		
		Tolophono	Sandyville, W	
			304-483-0073	
CI	accribed and s	worn before me this 4th day of		@tcenerav.com
Sui	oscribed and s	worn before the this 140 day of	ague	2020
		trinde & mc clum	0	Notate Rublic OFFICIAL SEAL
Му	Commission E	Expires 9-14-2022)	STATE OF WEST VIRGINIA
	and Gas Privacy N			LINDA L. MCCLUNG 413 FITZHUGH STREET RAVENSWOOD, WV 26164
The	Office of Oil and	Gas processes your personal information, s	such as name, addr	ess and phone number as a part of our regulatory duties.

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

WW-2A	Surface	Waiver
(4/16)		

(4/16)		SURFACE OW	NED WAIVED		
		SURFACE OW	MER WAIVER		
County	035	Oper		307032	
		Oper	ator well number	Ripley 7346	
	INSTRUCTI	ONS TO SURFACE OV	VNERS NAMED ON	PAGE WW2-A	
Thou	vall aparator named an	naga MMM2A is applying	for a normit from th	o Ctata to do oil or goo.	well work (Nata)
If the surface appeared on t be the only ow are valid for 24	tract is owned by more he Sheriff's tax ticket or mer who will actually red months. If you do not you know who it is. Als NOTE:	page WW2A is applying a than three persons, then the land or because you ceive these materials.) Sown any interest in the soon please notify the well YOU ARE NOT REQUIFIES COMMENTS AND O	en these materials was actually occupy the See Chapter 22 of the surface tract, please operator and the Of RED TO FILE ANY (were served on you bed ne surface tract. In eithe le West Virginia Code. V forward these materials ffice of Oil and Gas. COMMENT.	eause your name er case, you may Vell work permits to the true owner
Chief, Office o	of Oil and Cas				RECEIVED Office of Oil and Gas
	f Environmental Protect	ion			
601 57th St. SI	E				APR 2 0 2020
Charleston, W (304) 926-045					WV Department of Environmental Protection
operator files be filed in person be sure of the lf you have be work describe Comroperator's narthe application The Component	his Application. You has son or received in the nate of the contacted by the well in these materials, the ments must be in writing and well number and an You may add other do the proposed well work the soil erosion and seding amage would occur to proposed well work the applicant has committed want a copy of the period want a cop	comments. The law reave FIFTEEN (15) DAYS nail by the Chief's office costmaster to ensure additional operator and you have the permit may be issued the approximate location of the approximate locati	after the filing date by the time stated a equate delivery time signed a "voluntary ued at any time. It include your name on of the proposed voches, maps or photowork permit based or the safety of personadequate or effective esources; er sources or supplies on of a previous permit has failed to abate or copy of the order defilling. Contact the ENT OF NO OBJECT face owners and the achments consisting	to file your comments. above. You may call the or to arrange special expectatement of no objection, address and telephone well site including district or a substantial violation as seek review of the violation of the testing laboratories where the to obtain a copy. TION at I have received copies of pages 1 through	efore the date the Comments must be Chief's office to pedited handling. In to the planned number, the well and county from comments. Eving grounds: On of one or more ation". I should request thich you can hire so of a Notice and including a work
described ther	ein.				
	er state that I have no o issued on those mater	objection to the planned ials.	work described in th	ese materials, and I hav	e no objection to
FOR EXECUT	TION BY A NATURAL F	PERSON	FOR EXE	CUTION BY A CORPO	RATION, ETC.
			Company		
	Signature	Date	Name <u>Col</u>	umbia Gas Transmis am Leader - Well En	
	-		Its		Date
			<u>Jan</u>	nes Amos	
	Print Name				
			Sig	nature	Date

* coal not operated

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Jackson Operator Columbia Gas Transmission, LLC	D: 1 =0.40			
INSTRUCTIONS	TO COAL OPE	RATOR, OWNE	R, OR LESSEE	
To the coal operator, owner, any objection you wish to make or a with the Chief of the Office of Oil arby the Office. Mail objections to:	are required to m	nake by WV Coo	de 22-6-15, 16 or 17, must l	be filed
Chief, Office of Oil and Gas Department of Environmental Protection 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654	ction			
	WAIV	ER		
The undersigned coal operat location has examined this proposed location, the well location has been work proposed to be done at this location requirements of the West Virginia Control of th	d well location. I added to the min cation, provided,	If a mine map e ne map. The ur the well operat	xists which covers the area ndersigned has no objectior or has complied with all app	of well to the
FOR EXECUTION BY A NATURAL PERSO	ON	FOR EXE	CUTION BY A CORPORATION,	ETC.
	Date	Company Name		
Signature		By		Date
				Date
		Sigi	nature	Date

RECEIVED Office of Oil and Gas

APR 2 0 2020





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

April 15, 2020

Michael & Virginia Jones 3927 Parkersburg 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 7346 (API 47–035–00914).

As part of the well permitting process, Columbia, the well operator, is required to provide a copy of all applicable permit application forms for your review and record retention.

Regards,

Jim Amos

Team Leader

Well Engineering & Technology Columbia Gas Transmission, LLC

am Elin

Office of Oil and Gas

APR 2 0 2020

NIA

WW-2B1	
(5-12)	

Well No.	Ripley 7346

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 Labora Sampling Contr	
Well Operator	Not applicable - existing underground natural gas storage well.
Address	
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.

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APR 2 0 2020

WW-9 (5/16)

API Number	47 -	035	_ 00914	
Operator's W	ell No	. Ripley	7346	

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

LEGIST COTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name Columbia Gas Transmission, LLC OP Code 307032
Watershed (HUC 10) Mud Run of Sandy Creek Quadrangle Ripley, WV
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 V
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) Underground Injection (UIC Permit Number 34-119-28776, 34-167-23862 Reuse (at API Number
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. N/A - No drilling planned.
-If oil based, what type? Synthetic, petroleum, etc
Additives to be used in drilling medium? No drilling planned; fresh water, polymer, starch, LCM, surfactant, iron control (for clean-out and frac)
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A - No drilling planned.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-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 Cas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Cas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for o btaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title Team Leader - Well Engineering & Technology RECEIVED Office of Oil and Gas
Subscribed and sworn before me this 14th day of Opic OFFICIAL SEAL NOTARY PUBLIC NOTARY PUBLIC STATE OF WEST VIRGINIA WV Department of Environmental Protection of State of St

Operator's Well No. Ripley 7346

2	atment: Acres Disturbed 0.7	Preveg etation pH 6.5	
Lime Z	Tons/acre or to correct to pH	7	
Fertilizer type 10	-10-10		
Fertilizer amount	600lbs	s/acre	
Mulch_2	Tons/ac	cre	
	Seed	<u>Mixtures</u>	
T	emporary	Permanent	
Seed Type	lbs/acre	Seed Type lbs/acre	
Annual Rye	40	Orchard Grass and/or Tall Fescue	29
Hay or Straw	6000	Birdsfoot Trefoil (empire)	9
		Annual Rye	12
Tor Welland areas.	Annual Rye (40 lbs./acre)	until indigenous plants re-establish co	over.
Photocopied section of invo	the land application area. lved 7.5' topographic sheet.		
	lved 7.5' topographic sheet.		
Plan Approved by:	• •		
	lved 7.5' topographic sheet.		
Plan Approved by:	lved 7.5' topographic sheet.		
Plan Approved by:	lved 7.5' topographic sheet.		
Plan Approved by:	lved 7.5' topographic sheet.		
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Plan Approved by:	lved 7.5' topographic sheet.		
Plan Approved by:	lved 7.5' topographic sheet.	4-17-2020	RECEIVED Office of Oil and G
Plan Approved by:	lved 7.5' topographic sheet.	4-17-2020	RECEIVED office of Oil and G

WW-9- GPP Rev. 5/16

	Page		of	2
API Number 47	- 035	-	00914	
Operator's Well	No. Ripley	7346		

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): Mud Run of Sandy Creek	Quad: Ripley, WV
Farm Name: Peter F. Bonto Et. Al.	
List the procedures used for the treatment and discharge of fligroundwater.	uids. Include a list of all operations that could contaminate the
No fertilizer will be stored on site. Small quantities site, but located within secondary containment.	es of fuel, oil, and lubrications will be stored on
Spills from construction equipment and well treat to groundwater.	ment fluids is the only source of contaminate
2. Describe procedures and equipment used to protect groundwa	terquality from the list of potential contaminant sources above.
All construction and well servicing equipment will Fluid pumping well service equipment will have s Spill kits will be on site.	be monitored and inspected daily for leaks. econdary containment under all leak paths.
3. List the closest water body, distance to closest water body, discharge area.	and distance from closest Well Head Protection Area to the
Mud Run - 0.01 miles. 6.1 miles from WHPA (Ravenswood Municipal W 6.1 miles from WHPA (WV Baptist Conference C 2.8 miles from ZPC (City of Ripley).	ater Works). enter).
Summarize all activities at your facility that are already regulate.	ted for groundwater protection.
N/A	4-17-20-20
	REDEIVED Office of Oil and C

APR 2 0 2020

WV	W-9	- GPF
Rev	v. 5/	16

		Page	2	of	2
API Number 47	7 -	035	-	00914	
Operator's Well	N	Riple	v 7346		

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 meetings groundwater protection will be a topic of discussion.

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.

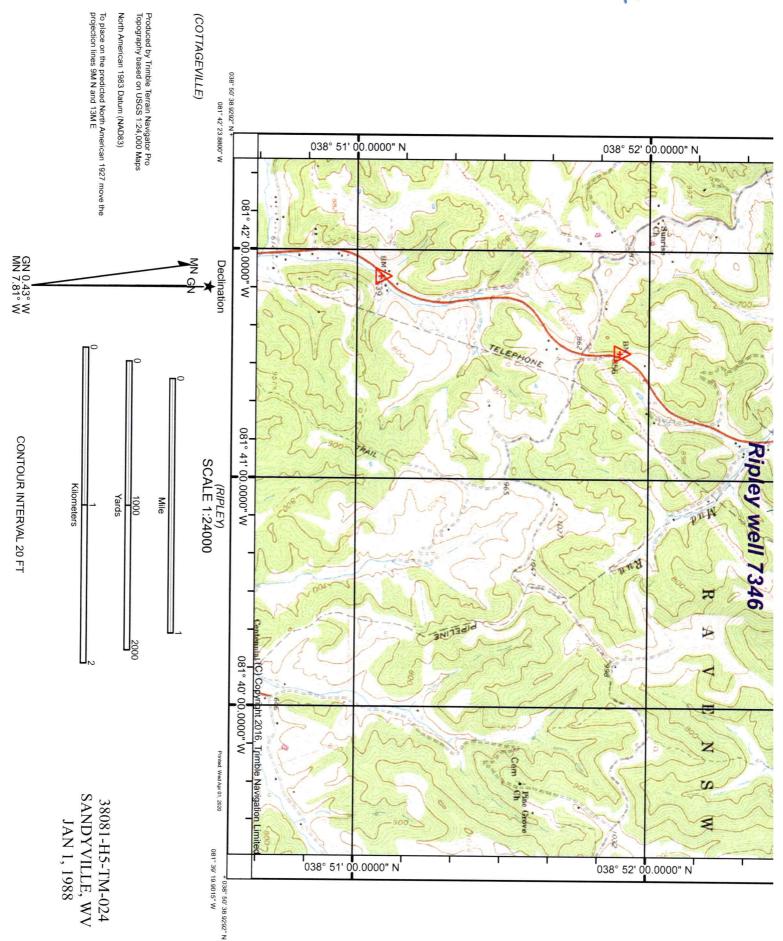
Signature:

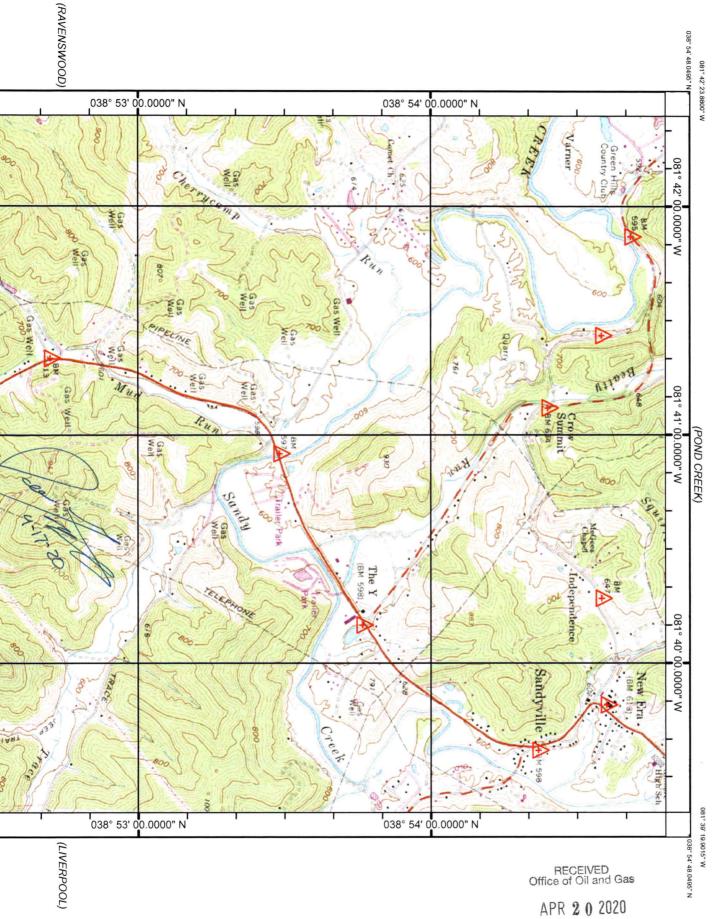
Date:

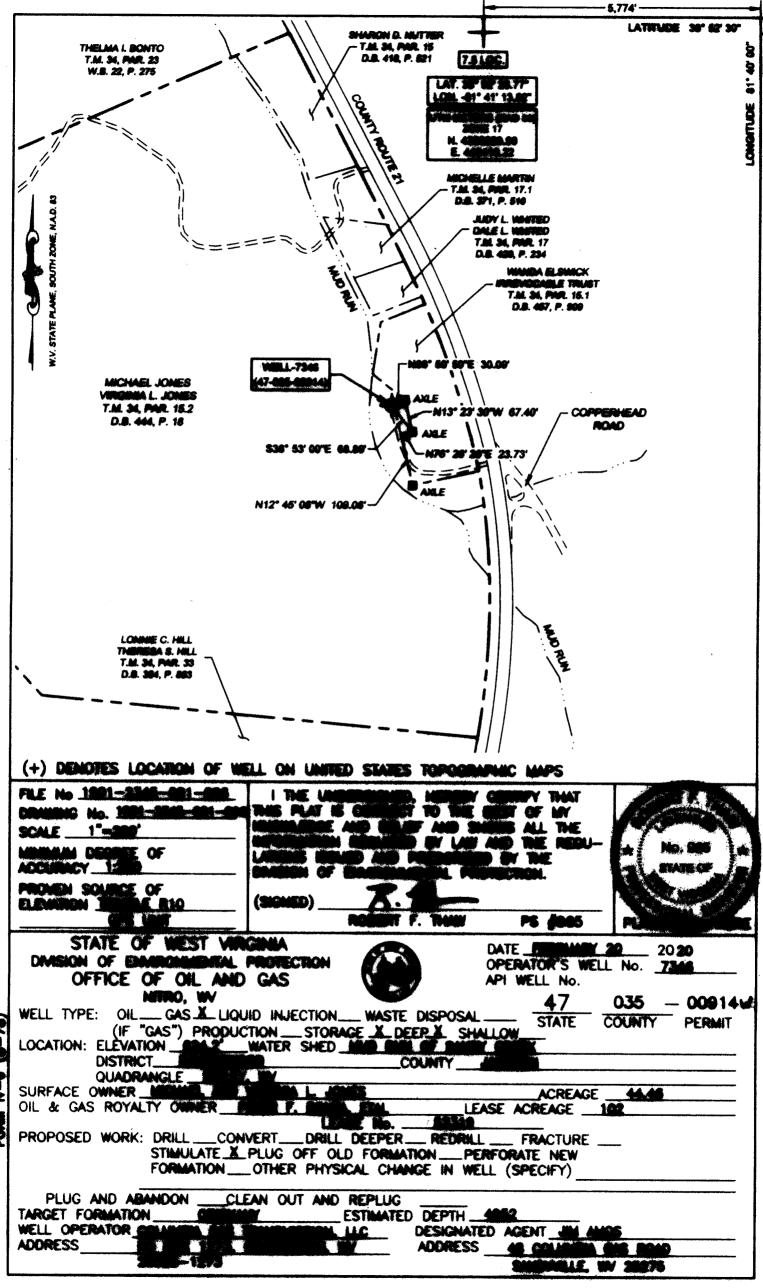
(BECEIVED Office of Oil and Gas

APR 2 0 2020









From:

Carr, Brian A (DHHR)

To:

Brad Nelson

Subject:

RE: [External] Wellhead Protection Area Evaluation

Date:

Friday, March 20, 2020 12:05:39 PM

Attachments:

<u>ImageUU1.png</u> <u>PreliminaryLetter ResponseColumbia2.docx</u>

Brad, don't get used to this quick turn around. Brian.

Sent: Thursday, March 19, 2020 7:58 AM

To: Carr, Brian A (DHHR) < Brian.A.Carr@wv.gov>

Subject: [External] Wellhead Protection Area Evaluation

CAUTION: External email. Do not click links or open attachments unless you verify sender.

Hello Brian,

Could you also provide a Wellhead Protection Area Evaluation for the well listed below? This is a gas storage well. I appreciate the help.

Ripley 7346: (38.873900, -81.686900)

Thank you,

Brad

Brad Nelson

Storage Engineer

Well Engineering & Technology

brad nelson@tcenergy.com

mobile: 724-250-0610 desk: 724-223-2753



455 Racetrack Road Washington, PA USA 15301

TCEnergy.com

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APR 2 0 2020

WV Department of Environmental Protection

We respect your right to choose which electronic messages you receive. To stop receiving this message and similar communications from TC Energy please reply to this message with the subject "UNSUBSCRIBE".

This electronic message and any attached documents are intended only for the named addressee(s). This communication from TC Energy may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message. Thank you.

Nous respectons votre droit de choisir les messages électroniques que vous recevez. Pour ne plus recevoir ce message et des communications similaires de TC Énergie, veuillez répondre à ce message avec l'objet « DÉSABONNEMENT ».

Ce message électronique et tous les documents joints sont destinés uniquement aux destinataires nommés. Cette communication de TC Énergie pourrait contenir de l'information privilégiée, confidentielle ou autrement protégée de la divulgation, et elle ne doit pas être divulguée, copiée, transférée ou distribuée sans autorisation. Si vous avez reçu ce message par erreur, veuillez en aviser immédiatement l'expéditeur et supprimer le message initial. Merci.

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APR 2 0 2020

This letter is in response to the informational request dated March 20, 2020 concerning a Wellhead Protection Area Evaluation in Jackson County, WV.

Based on the current information, we have found that the Gas Storage well (Ripley well # 7346) does not intersect with public water sources nor Protection Areas.

Attached are two tables showing the public water sources/ intakes and protection areas **closest** to the locations.

CLOSEST ACTIVE PUBLIC WATER				
Gas Storage Name	Distance	PWSID	Source	System Name
Ripley well 7346	6.2 miles	WV9918034	Ground Water (GW)	WV BAPTIST CONFERENCE CENTER

PROTECTION AREAS			
Gas Storage Name	Distance	PWSID	System Name
	6.1 miles from WHPA	WV3301810	RAVENSWOOD MUNICIPAL WATER WORKS
Ripley well 7346	6.1 miles from WHPA	WV9918034	WV BAPTIST CONFERENCE CENTER
	2.8 miles from ZPC	WV3301811	RIPLEY CITY OF

March 20, 2020

RECEIVED Office of Oil and Gas

APR 2 0 2020

WV DEP Office of Oil & Gas Permit Application Check-off

1. Survey plat 2. Surface owner name & address 3. Site Reclamation Plan 4. Topo map 5. Copy of old State Completion Report 6. Wellhead Protection Area Assessment 7. Application package prepared 8. Approved by State Inspector 9. Signed & notarized 10. Water Well Testing Reqr'mts 10. Only required if drilling new well 11. Surface Owner Waiver 12. Forvide copy of entire permit application to surface owner 12. Toal Operator Waiver 13. Coal Operator Waiver 14. Include Certified Mail return receipt if mailed 15. Emergency Evacuation Plan 16. Coal Operator Plan 17. Only required if "Deep Well" 18. Surface Owner Waiver 19. Include Certified mail receipt if surface Owner 19. Include Certified mail receipt if mailed 19. Coal Owner Waiver 10. Include Certified mail return receipt if mailed 10. Coal Owner Waiver 10. Include Certified mail receipt if surface Owner Waiver mailed 19. Ensure mylar copy of survey plat included 10. Include certified mail receipt if Surface Owner Waiver mailed 10. Emergency Evacuation Plan 10. Only required if "Deep Well"	Well _	KIPLEY 7346	
3. Site Reclamation Plan 4. Topo map 5. Copy of old State Completion Report 6. Wellhead Protection Area Assessment 7. Application package prepared 8. Approved by State Inspector 9. Signed & notarized 10. Water Well Testing Reqr'mts 10. Only required if drilling new well 11. Surface Owner Waiver 12. Coal Operator Waiver 13. Coal Operator Waiver 14. Only required if coal is currently mined/operated 15. Include Certified Mail return receipt if mailed 16. Sent to the State with Fee 16. Ensure mylar copy of survey plat included 16. Include certified mail receipt if Surface Owner Waiver mailed 17. Include Certified Mail return receipt if mailed 18. Sent to the State with Fee 19. Ensure mylar copy of survey plat included 19. Include certified mail receipt if Surface Owner Waiver mailed 19. Emergency Evacuation Plan	1.	Survey plat	
4. Topo map 5. Copy of old State Completion Report 6. Wellhead Protection Area Assessment 7. Application package prepared 8. Approved by State Inspector 9. Signed & notarized 10. Water Well Testing Reqr'mts • Only required if drilling new well 11. Surface Owner Waiver • Provide copy of entire permit application to surface owner • Include Certified Mail return receipt if mailed 12. Coal Operator Waiver • Only required if coal is currently mined/operated • Include Certified Mail return receipt if mailed 13. Coal Owner Waiver • Include Certified Mail return receipt if mailed 14. Sent to the State with Fee • Ensure mylar copy of survey plat included • Include certified mail receipt if Surface Owner Waiver mailed 15. Emergency Evacuation Plan	2.	Surface owner name & address	
5. Copy of old State Completion Report 6. Wellhead Protection Area Assessment 7. Application package prepared 8. Approved by State Inspector 9. Signed & notarized 10. Water Well Testing Reqr'mts • Only required if drilling new well 11. Surface Owner Waiver • Provide copy of entire permit application to surface owner • Include Certified Mail return receipt if mailed 12. Coal Operator Waiver • Only required if coal is currently mined/operated • Include Certified Mail return receipt if mailed 13. Coal Owner Waiver • Include Certified Mail return receipt if mailed 14. Sent to the State with Fee • Ensure mylar copy of survey plat included • Include certified mail receipt if Surface Owner Waiver mailed 15. Emergency Evacuation Plan	3.	Site Reclamation Plan	
6. Wellhead Protection Area Assessment 7. Application package prepared 8. Approved by State Inspector 9. Signed & notarized 10. Water Well Testing Reqr'mts 10. Only required if drilling new well 11. Surface Owner Waiver 12. Coal Operator Waiver 13. Coal Operator Waiver 14. Only required if coal is currently mined/operated 15. Include Certified Mail return receipt if mailed 16. Coal Owner Waiver 17. Include Certified Mail return receipt if mailed 17. Coal Owner Waiver 18. Include Certified Mail return receipt if mailed 19. Coal Owner Waiver 10. Include Certified Mail return receipt if mailed 10. Coal Owner Waiver 10. Include Certified Mail return receipt if mailed 11. Surface Owner Waiver 12. Coal Owner Waiver 13. Coal Owner Waiver 14. Sent to the State with Fee 15. Ensure mylar copy of survey plat included 16. Include certified mail receipt if Surface Owner Waiver mailed 17. Emergency Evacuation Plan	4.	Topo map	
7. Application package prepared 8. Approved by State Inspector 9. Signed & notarized 10. Water Well Testing Reqr'mts • Only required if drilling new well 11. Surface Owner Waiver • Provide copy of entire permit application to surface owner • Include Certified Mail return receipt if mailed 12. Coal Operator Waiver • Only required if coal is currently mined/operated • Include Certified Mail return receipt if mailed 13. Coal Owner Waiver • Include Certified Mail return receipt if mailed 14. Sent to the State with Fee • Ensure mylar copy of survey plat included • Include certified mail receipt if Surface Owner Waiver mailed 15. Emergency Evacuation Plan	5.	Copy of old State Completion Report	
8. Approved by State Inspector 9. Signed & notarized 10. Water Well Testing Reqr'mts • Only required if drilling new well 11. Surface Owner Waiver • Provide copy of entire permit application to surface owner • Include Certified Mail return receipt if mailed 12. Coal Operator Waiver • Only required if coal is currently mined/operated • Include Certified Mail return receipt if mailed 13. Coal Owner Waiver • Include Certified Mail return receipt if mailed 14. Sent to the State with Fee • Ensure mylar copy of survey plat included • Include certified mail receipt if Surface Owner Waiver mailed 15. Emergency Evacuation Plan	6.	Wellhead Protection Area Assessment	
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15. Emergency Evacuation Plan		Ensure mylar copy of survey plat included	•
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Only required if "Deep Well" Received on 4-16-20 Jee Justa	15.	Emergency Evacuation Plan	
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