

## west virginia department of environmental protection

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

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

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

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

Re: Permit approval for 7296 47-035-00493-00-00

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

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

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-9450.

James A. Martin Chief

Operator's Well Number: 7296

Farm Name: COAST, C. M., ETAL

U.S. WELL NUMBER: 47-035-00493-00-00

Vertical Plugging Date Issued: 5/13/2021



## **PERMIT CONDITIONS**

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

### **CONDITIONS**

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

WW-4B Rev. 2/01

1) Date 12/24	, 2020
2)Operator's	
Well No. Ripley 7296	
3) API Well No. 47-095	- 00493

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

	Well Type: Oil/ Gas/ Liquid	나는 그는 그렇게 하는 사람이 그렇게 하는 것이 되었다. 그는 그는 그를 가는 것이 되었다. 그렇게 하는 것이 없는 것이 없는 것이 없다.
	(If "Gas, Production or Und	derground storage X/ Shallow
5)	Location: Elevation 617 feet	Watershed Sandy Creek
7.1	District Ravenswood	County Jackson Quadrangle Sandyville
61	Well Operator Columbia Gas Transmission LLC	7) Designated Agent James Amos
6)	Address 1700 MacCorklle SE	Address 48 Columbia Gas Road
	Charleston, WV 25325	Sandyville, WV 25275
8)	Oil and Gas Inspector to be notified Name Joe Taylor	9) Plugging Contractor  Name Contractor Services Inc.
	Address 1478 Claylick Road	Address 929 Charleston Road
	Ripley, WV 25271	Spencer, WV 25276
	1) Well job plan. 2) Prior to P&A wellbore schematic. 3) Proposed P&A wellbore schematic.	
	2) Prior to P&A wellbore schematic.	
	2) Prior to P&A wellbore schematic.	RECEIVED Office of Oil and Ga
	2) Prior to P&A wellbore schematic.	Office of Oil and Ga: FEB - 2 2021
	2) Prior to P&A wellbore schematic.	Office of Oil and Ga

WELL JOB PLAN		Well Engineering & Technology			PAGE 2	DATE JOB PREPARED:	12/21/2020
Objective: Pl	ug and Abandon					LAST PROFILE UPDATE:	
TITLE:	Plug and Abandon				WORK TYPE	: WR	
FIELD:	Ripley	WELL:	7296				
STAT:	WV	SHL (Lat/Long):	0	0	AP	1: 0	
TWP:	0	BHL (Lat/Long):	0	0	CNTY	· 0	
			PROCE	DURE			

#### \*\*Note; All cement used will be Class A, slurry weight 15 ôppg, slurry yield 1 18 cuff/sk. All spacers will be 8% Bentonite gel\*\*

- Obtain State plugging permit, FERC authorization, EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
- 2 Notify landowner.
- Obtain General Work Permit and Wellsite Review & Turnover Form from Operations. 3
- Notify environmental inspector prior to beginning work.
- 5 Notify State O&G inspector prior to beginning work.
- Disconnect well line.
- Install ECD's per EM&CP.
- 8 Prepare access road and well site.
- 9 Document casing and annular pressures.
- Blow down all annuli, replace fittings as needed, and leave annuli open to atmosphere for monitoring. 10
- Kill well with viscosified fluid. Spearhead 10 bbl LCM ahead. 11
- Fill 4x7, 7x8, and 8x13 annuli with kill fluid. Fill all remaining annuli with FW. Document volumes. 12
- 13 Dig around base of wellhead to uncover casing tops and remove cement if present.
- 14 MIRU service rig.
- 15 NU 7-1/16" Cameron 5K BOPE (blind/shear + pipe + annular) on top of master valve. Need kill and choke outlets below blind/shear
- 16 Function and pressure test BOPE to low (250 psig) and high (2500 psig).
- TIH w/ 2-3/8" drill pipe workstring with cut-lip shoe and wash to TD. 17
- 18 Install balanced cement plug from TD to 4000'
- 19 POOH to above cement, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC.
- 20 WOC minimum 8 hours. RIH and tag cement. If cement top is deeper than 4200' then spot a second balanced cmt plug.
- 21 Install 4-1/2" CIDBP above cement plug.
- 22 Top off 4-1/2" with kill fluid and perform 500 psig pressure test to verify integrity of BP.
- 23 Obtain CBL from 1000' to surface. Provide digital copy to WET engineer and consult to confirm next steps.
- 24 ND BOPE.
- 25 Weld pulling nipples on 4-1/2" csg stub and pull seals/slips.
- 26 Weld pulling nipple on 7" csg stub and dress top of 8-5/8" to accommodate BOPE.
- 27 Strip 11" BOPE (blind + pipe rams + annular) over stubs and NU on 8-5/8" csg. Will need kill/choke outlets below blind rams.
- 28 Function test and pressure test pipe rams low (250 psig) and high (2000 psig).
- Wireline freepoint 4-1/2" csg and consult with WET engineer to determine next Steps.
  - \* It's likely that 4-1/2" csg is cemented inside 7" csg and both may move. If so consider cutting both strings and pulling. Consult with WET engineer.

### If freepoint is deeper than 2100' proceed to Step 30. If freepoint is shallower than 2100' jump to Step 60.

- 30 Sand cut both 4-1/2" and 7" casings at freepoint depth.
- 31 Pull up 5 ft to separate casing and circulate kill fluid to surface - circulate until clean and kill fluid density returns to surface
- 32 Pull 4-1/2" and 7" casings together
- RIH with 2-3/4" work string and install balanced cement plugs from BP to 2100'. 33
- 34 WOC 6 hours and tag plug. Report to WET engineer.
- 35 ND BOPE
- 36 Weld pulling nipple on 8-5/8" csg stub
- 37 Dress top of 13-3/8" to accommodate BOPE.
- 38 Strip 11" spool (with kill/choke outlets) and 11" annular BOP
- 39 Function test and pressure test pipe rams low (250 psig) and high (500 psig).
- 40 Attempt to pull all 8-5/8" casing. If can't pull, wireline freepoint and cut/pull all that is free.
- 41 TIH w/2-3/8" workstring.
- 42 Spot balanced cement plug from top of last cement plug to 800 ft.
- 43 POOH to above cement, reverse circulate to clean tubulars, pull 5 joints, and WOC.
- 44 WOC minimum 4 hours. RIH and tag cement, If cement top is less than 100' from top of 8-5/8" csg stub install second cement plug.
- 45 ND BOPE.
- 46 Drive 10 to 20 feet of 16" casing.
- 47 Wireline freepoint 13-3/8" casing. Report to WET engineer.
- 48 Will either perf/squeeze or cut/pull casings.
- 49 Install cement from top of last cement plug to surface.
- 50 Grout all annuli as deep as possible

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iactiva	OB PLAN	Well Engineerin	g & Technolo	gy	PAGE 3		DAT	TE JOB	PREPA	RED:	12/21/202
jective.	Plug and Abandon							ST PRO	FILE UP	DATE:	
TITLE:		- 1			WORK	TYPE:	WR				
FIELD:		WELL:	7296			ADI:			n	_	
STAT:		SHL (Lat/Long):	0	0		API: CNTY:			0	_	
TWP:	: 0	BHL (Lat/Long):		RE CONTINUED (PA		CIVIT.	_	-	0		
			THOGESON	in solutions (17	102 2/					_	
51	RDMO service rig.					5.5	815		100		· A
52	Erect monument per state	regulations. Reclaim locat	tion and lease ro	oad.		17	03	50	04	0	31
53	P&A complete.					25 0	0.0	0 0	0 2	U	G.
If free	point is shallower than 2100	oroceed with following S	teps.								
60	Perforate thru both 4-1/2"			ed 90 degree. Cons	ult with perf compar	ny on char	ge need	ded.			
61	Peform injection/circulation										
62A	If injection or circulation be	hind 7" csg is established	: If circulation to	surface established	between 4x7 then	procedure	will ne	ed mod	ified - co	nsult	
	with WET engineer before	proceeding.									
		-sleeve cement retainer a	nd set above pe	rfs.							
	Confirm circulat										
		age to function test retained			a (						
	The second secon	e-determined volume not t ET engineer to determine		William Control of the second control of the	r,						
62B	If circulation/injection not e										
62C	Repeat process above as		the party of the second	process above.							
020	3000 - 02'	riccoca, periorating at roll	owing intervals,								
	2500-02'.										
	* Note that during stone ah	Control of the Contro	10-1-11-11-11								
				s all perf zones, cas	ing shoes, and O/G	/W zones					
	If needed install cement pl				ing shoes, and O/G	/W zones					
	If needed install cement plant of the second	ugs across all perf interval	ls and spot cement of the spot	ent plug to 2100'.							
70	If needed install cement plut If freepoint is between 900 Sand cut both 4-1/2" and 7	ugs across all perf interval - 2100' proceed with Step " casings at freepoint dep	ls and spot cements 70. If freepoint	ent plug to 2100'. t is shallower than 90	00' jump to Step 100	0.					
71	If needed install cement plants of the second of the secon	ugs across all perf interval - 2100' proceed with Step " casings at freepoint dep sing and circulate kill fluid	ls and spot cements 70. If freepoint	ent plug to 2100'. t is shallower than 90	00' jump to Step 100	0.					
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71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88	If needed install cement plants of the point is between 900 Sand cut both 4-1/2" and 7 Pull up 5 ft to separate cas Pull 4-1/2" and 7" casings RIH with 2-3/8" work string WOC 4 hours and tag plug ND BOPE.  Weld pulling nipple on 8-5/8 Dress top of 13-3/8" to acc Strip and NU 11" spool (wire Function test and pressure Attempt to pull all 8-5/8" ca TIH w/2-3/8" workstring. Spot balanced cement plug POOH to above cement, re WOC minimum 4 hours. R ND BOPE.  Drive 10 to 20 feet of 16" of Wireline freepoint 13-3/8" will either perf/squeeze or Install cement from top of I	ugs across all perf interval  1 - 2100' proceed with Step "casings at freepoint dep sing and circulate kill fluid it together. g and install balanced cem g. Report to WET enginee (8" csg stub commodate BOPE. th kill/choke outlets) and 1 e test pipe rams low (250 p asing. If can't pull, wireline g from top of last cement p everse circulate to clean to IH and tag cement. If cem casing. casing. Report to WET er cut/pull casings. last cement plug to surface	Is and spot cement of 70. If freepoint ith. Ito surface - circular ent plugs from to ent.  11" annular BOP osig) and high (5 a freepoint and cooling to 800 ft. subulars, pull 5 jouent top is less the ingineer.	ent plug to 2100'.  It is shallower than 90 alate until clean and cop of last cement plus on 13-3/8" csg.  Ton 13-3/8" csg.  O psig).  Lut/pull all that is free alate, and WOC.	00' jump to Step 100 kill fluid density retu ig to 150' above top	O.	face.	t plug.			
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71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91	If needed install cement plants of the point is between 900 Sand cut both 4-1/2" and 7 Pull up 5 ft to separate cas Pull 4-1/2" and 7" casings RIH with 2-3/8" work string WOC 4 hours and tag plus ND BOPE.  Weld pulling nipple on 8-5/2 Dress top of 13-3/8" to acc Strip and NU 11" spool (wire Function test and pressure Attempt to pull all 8-5/8" car TIH w/2-3/8" workstring. Spot balanced cement plus POOH to above cement, rew WOC minimum 4 hours. RND BOPE.  Drive 10 to 20 feet of 16" of Wireline freepoint 13-3/8" will either perf/squeeze or Install cement from top of I Grout all annuli as deep as RDMO service rig.	ugs across all perf interval  2 - 2100' proceed with Step "casings at freepoint dep sing and circulate kill fluid it together.  3 and install balanced cem  5. Report to WET engines  78" csg stub commodate BOPE.  18th kill/choke outlets) and 1  18te test pipe rams low (250 p  asing. If can't pull, wireline  19g from top of last cement p  19everse circulate to clean to  11H and tag cement. If cem  12th casing.	Is and spot cement of 70. If freepoint of the to surface - circular plugs from to the cent plugs freepoint and cent to plug to 800 ft. The cent top is less the cent plug freepoint and cent top is less the cent t	ent plug to 2100'.  It is shallower than 90 allate until clean and op of last cement plus on 13-3/8" csg. 00 psig).  But pull all that is free ints, and WOC. It is shall work of the shall be s	00' jump to Step 100 kill fluid density retu ig to 150' above top	O.	face.	t plug.			
71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90	If freepoint is between 900 Sand cut both 4-1/2" and 7 Pull up 5 ft to separate cas Pull 4-1/2" and 7" casings RIH with 2-3/8" work string WOC 4 hours and tag plug ND BOPE.  Weld pulling nipple on 8-5/Dress top of 13-3/8" to acc Strip and NU 11" spool (wir Function test and pressure Attempt to pull all 8-5/8" ca TIH w/2-3/8" workstring. Spot balanced cement plug POOH to above cement, re WOC minimum 4 hours. R ND BOPE.  Drive 10 to 20 feet of 16" of Wireline freepoint 13-3/8" will either perf/squeeze or Install cement from top of I Grout all annuli as deep as RDMO service rig. Erect monument per state	ugs across all perf interval  2 - 2100' proceed with Step "casings at freepoint dep sing and circulate kill fluid it together.  3 and install balanced cem  5. Report to WET engines  78" csg stub commodate BOPE.  18th kill/choke outlets) and 1  18te test pipe rams low (250 p  asing. If can't pull, wireline  19g from top of last cement p  19everse circulate to clean to  11H and tag cement. If cem  12th casing.	Is and spot cement of 70. If freepoint of the to surface - circular plugs from to the cent plugs freepoint and cent to plug to 800 ft. The cent top is less the cent plug freepoint and cent top is less the cent t	ent plug to 2100'.  It is shallower than 90 allate until clean and op of last cement plus on 13-3/8" csg. 00 psig).  But pull all that is free ints, and WOC. It is shall work of the shall be s	00' jump to Step 100 kill fluid density retu ig to 150' above top	O.	face.	t plug.			
71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92	If needed install cement plants of the point is between 900 Sand cut both 4-1/2" and 7 Pull up 5 ft to separate cas Pull 4-1/2" and 7" casings RIH with 2-3/8" work string WOC 4 hours and tag plus ND BOPE.  Weld pulling nipple on 8-5/2 Dress top of 13-3/8" to acc Strip and NU 11" spool (wire Function test and pressure Attempt to pull all 8-5/8" car TIH w/2-3/8" workstring. Spot balanced cement plus POOH to above cement, rew WOC minimum 4 hours. RND BOPE.  Drive 10 to 20 feet of 16" of Wireline freepoint 13-3/8" will either perf/squeeze or Install cement from top of I Grout all annuli as deep as RDMO service rig.	ugs across all perf interval  2 - 2100' proceed with Step "casings at freepoint dep sing and circulate kill fluid it together.  3 and install balanced cem  5. Report to WET engines  78" csg stub commodate BOPE.  18th kill/choke outlets) and 1  18te test pipe rams low (250 p  asing. If can't pull, wireline  19g from top of last cement p  19everse circulate to clean to  11H and tag cement. If cem  12th casing.	Is and spot cement of 70. If freepoint of the to surface - circular plugs from to the cent plugs freepoint and cent to plug to 800 ft. The cent top is less the cent plug freepoint and cent top is less the cent t	ent plug to 2100'.  It is shallower than 90 allate until clean and op of last cement plus on 13-3/8" csg. 00 psig).  But pull all that is free ints, and WOC. It is shall work of the shall be s	00' jump to Step 100 kill fluid density retu ig to 150' above top	O.	face.	t plug.			

BE PERFORMED - CONSULT WITH WV DEP INSPECTOR.

100 Sand cut both 4-1/2" and 7" casings at freepoint depth.

101 Pull up 5 ft to separate casing and circulate kill fluid to surface - circulate until clean and kill fluid density returns to surface.

102 Pull 4-1/2" and 7" casings together.

RIH with work string and install balanced cement plugs from top of last cement plug to 150' above top of csg stubs. 103

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FEB - 2 2021

PREPARED BY:	Jim Amos	REVIEWED BY:	APPROVED:	WV Department of Environmental Protection
PREP DATE:	12/21/2020			



WELL JOB PLAN	Well Engineering	Well Engineering & Technology			DATE JOB PREPARE	D: 12/21/2020
Objective: Plug and A	bandon				LAST PROFILE UPDAT	E:
TITLE: Plug an	d Abandon			WORK TYPE:	WR	
FIELD: Ripley	WELL:	7296				
STAT: WV	SHL (Lat/Long):	. 0	0	API:	0	
TWP: 0	BHL (Lat/Long):	0	0	CNTY:	0	
		PROCEDURE	CONTINUED (P	AGE 3)		

104 WOC 4 hours and tag plug. Report to WET engineer.

105 ND BOPE

106 Weld pulling nipple on 8-5/8" csg stub

107 Drive 10 to 20 feet of 16" casing.

108 Dress top of 13-3/8" to accommodate BOPE.

109 Strip and NU 11" spool (with kill/choke outlets) and 11" annular BOP on 13-3/8" csg.

110 Function test and pressure test pipe rams low (250 psig) and high (500 psig).

Attempt to pull all 8-5/8" casing. If can't pull, wireline freepoint and cut/pull all that is free.

112 TIH w/2-3/8" workstring.

113 Spot balanced cement plug from top of last cement plug to 800 ft.

114 POOH to above cement, reverse circulate to clean tubulars, pull 5 joints, and WOC.

115 WOC minimum 4 hours. RIH and tag cement. If cement top is less than 100' from top of 8-5/8" csg stub install second cement plug.

116 ND BOPE

117 Wireline freepoint 13-3/8" casing. Report to WET engineer.

118 Will either perf/squeeze or cut/pull casings.

119 Install cement from top of last cement plug to surface.

120 Grout all annuli as deep as possible.

121 RDMO service rig.

122 Erect monument per state regulations. Reclaim location and lease road.

123 P&A complete

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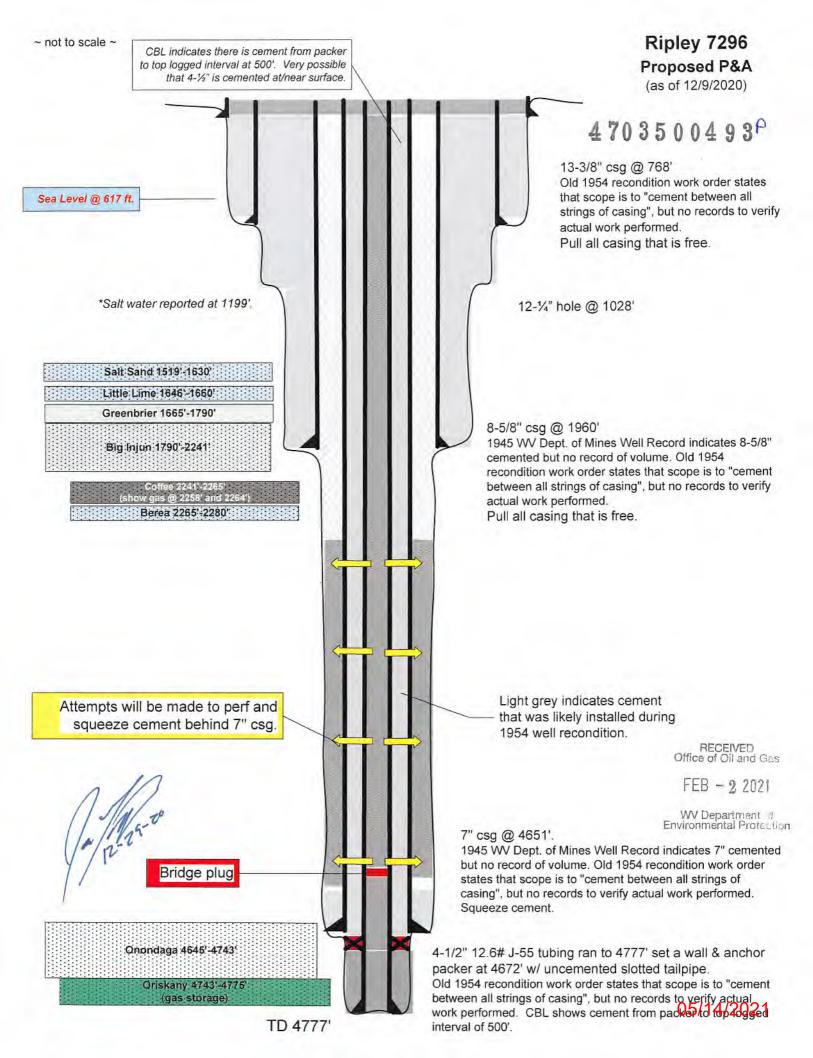
4703500493

FEB - 2 2021

PREPARED BY:	Jim Amos	REVIEWED BY:	APPROVED:	Environmental Protection
PREP DATE:	12/21/2020			

Ja / 12-29-20

WELL JOB PLAN Objective: Plug and Ab TITLE: Plug and A	andon	Engineering & Te	chnology				OB PREPARED: 12/21/2020 PROFILE UPDATE: WR	
FIELD: Ripley	Abalidoli	WELL	: 7296			World Tit E.	***	
STATE: WV		SHL (Lat/ Lon				API:		
DIST:		BHL (Lat/Long				CNTY:		
EXISTING TUBULAR	OD WEIG	HT		DE	PTH (ft)	FORMATION:	Oriskany	
CONFIGURATION	(inches) (PPF	) GRADE	THREAD	TOP	воттом	DEPTH:	See below.	
Conductor	The state of the s					PAY:	ELEVATIONS	
Surface						TD:	TMG:	
Intermediate1						PBTD:	KB-RF:	
Intermediate2			1			KB-GL:	GL: WELLBORE SCHEMATIC	
Production						CSG DEPTH	WELLBURE SCHEWATIC	
Tubing Perforations							2570000000000000	
Perforations						17031	500493	
Perforations						2 100	004391	
Wellhead						1		
D.H. EQUIPMENT			TYPE		DEPTH (ft)			
	CKER INFO: Uppe	er			DEI III (II)			
1.7	Lowe							
	7777					3		
NIPPLE PRO	OFILE INFO: Uppe	er				314		
1000000	Lowe							
						3		
	SSSV INFO:							
CEMENT INFO					TOC (ft)	<u> </u>		
						<u> </u>		
						100		
MISC INFORMATION								
							RECEIVED Office of Oil and Gas	
							FEB - 2 2021	
							WV Department of Environmental Protection	
PROPOSED YEAR:	2020	ERCB PERMIT DT. APPLIED:	REQD:	YES ISSUED:	NO_X_	(Internal) PDS Required:	YESNO	
PREPARED BY:	Jim Amos	REVIEWED BY				APPROVED: X Jam & Can		
PREP DATE:	12/21/2020					James Amos Principal Engi Signed by: 83	neer aa62d7-b683-404d-8328-f042f2e33502	



Ripley 7296 ~ not to scale ~ CBL indicates there is cement from packer Prior to P&A to top logged interval at 500'. Very possible that 4-1/2" is cemented at/near surface. (as of 10/29/2020) 47035004936 Sea Level @ 617 ft. 13-3/8" csg @ 768' (no record of cement) 12-1/4" hole @ 1028' \*Salt water reported at 1199'. Salt Sand 1519'-1630' Little Lime 1646'-1660' Greenbrier 1665'-1790' 8-5/8" csg @ 1960' Big Injun 1790'-2241 1945 WV Dept. of Mines Well Record indicates 8-5/8" cemented but no record of volume. Old 1954 recondition work order states that scope is to "cement between all strings of casing", but no records to verify actual work performed. Berea 2265'-2280' Hashed fill indicates possible cement installed during well recondition in 1954. Light grey indicates cement that was likely installed during 1954 well recondition. RECEIVED Office of Oil and Gas FEB - 2 2021 WV Department of Environmental Protection 7" csg @ 4651'. 1945 WV Dept. of Mines Well Record indicates 7" cemented but no record of volume. Old 1954 recondition work order states that scope is to "cement between all strings of casing", but no records to verify actual work performed. Onondaga 4645'-4743' 4-1/2" 12.6# J-55 tubing ran to 4777' set a wall & anchor packer at 4672' w/ uncemented slotted tailpipe. Old 1954 recondition work order states that scope is to "cement Oriskany 4743'-4775 between all strings of casing", but no records to verify actual (gas storage) work performed. CBL shows cement from paddo/td &badged TD 4777' interval of 500'.

## フュラ出OLUMBIA GAS TRANSMISSION CORE P. O. BOX 610 CLENDENIN, WEST VIRGINIA 25040

F-19924

WEST VIRGINIA DEPARTMENT OF MINES OIL & GAS DIVISION WELL RECORD

47035004930

Gas Well Casing & Tubing

Company Address Farm Location Well No. District Surface Mineral Commenced Completed Date shot  Open flow Volume Rock Pressure Salt Water	United Carbon Company Box 1913, Charleston 27.W.Y C. M. Coast et al Acres 208 Sandy Creek 1 (1296) Elev. 614.3 Gr. Ravenswood - Jackson County C. M. Coast et al, Rt. 1 Ravenswood, W.Va. Same June 26, 1945 Oct. 6, 1945 19-7-45 Depth 4744 to 4771 with 40 qts. glycorine 62/10ths M in 7" OD 32# 12,534,000 C.F. 1550 lbs. 24 hrs. 1199 H.F.				
Sand Red Rock Sand	0 8 100	8 100 120			
Red Rock	120	1.95			
Sand	195	254 328			
Slate	254 328	340			
Red Rock Sand	340	370			
Red Rock	370	420			
Sand	1,20	490			
Shell Black	490	500			
Slate	500 500	590 61.6			
Sand	590 616	640			
Slate Red Rock	640	680			
Sand	680	705			
Red Rock	705	800 .			
Shell	800	814			
Red Rock	844	988			
Sand	988 303.5	101.5			
Shell Black	1015 1197	1197 1244			
Sand Slate	12/44	1485			
Salt Sand	1485	1.64.6			
Little Lime	1646	1660			
Big Lime	1660	1780			
· Slate	1780	1782			
Sand	1782 1872	1872 1992			
Lime Shell Slate & Shells	1992	2258 Gas 2258 show			
Berea Sand	2258	2264 Gas 2264 show			
Slate & Shells	2264	3712			
Shale Brown	371.2	3980			
Slate White	3980	4080			
Slate & Shells	4080 4353	4353 4639			
Shale Brown	4353 4639	4743			
Corniferous Lime Oriskany Sand	4.743	4775			
Time	4775	4777			
TOTAL DEPTH		4777			

13 3/8 10 3/4 8 5/8 7681 7681 1023 0 1960 1960 4651 4651 7 00 2 3/8 4777 4777

Casing cemented: 8 5/8" 1210' 7" OD 4547'

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FEB052144/2021

WV Department of Environmental Protection

WW-9 (5/16)

API Number 47 - 035	_00493
Operator's Well No.	

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

	OSAL & RECLAMATION PLAN
Operator Name Columbia Gas Transmission	OP Code 307032
Watershed (HUC 10) Sandy Creek	Quadrangle Sandyville
Do you anticipate using more than 5,000 bbls of water to comp	lete the proposed well work? Yes No
Will a pit be used? Yes ✓ No	
If so, please describe anticipated pit waste:fresh wa	ater, brine, cement returns, bentonite gel
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? 20
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provid	e a completed form WW-9-GPP)
Underground Injection (UIC Permit Reuse (at API Number	Number 34-119-28776-, 34-167-23862
Off Site Disposal (Supply form WW	V -9 for disposal location)
Other (Explain Appalachian Water Se	rivices, Station W1 Ronco WTP, Masontown, PA - Permit 2608201
Will closed loop system be used? If so, describe: no	
Drilling medium anticipated for this well (vertical and horizont	al)? Air, freshwater, oil based, etc. N/A
-If oil based, what type? Synthetic, petroleum, etc	
Additives to be used in drilling medium?	
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) subsoils
-Landfill or offsite name/permit number?	
	Das of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of the West Virgorovisions of the permit are enforceable by law. Violations of a or regulation can lead to enforcement action.  I certify under penalty of law that I have personally application form and all attachments thereto and that, based on the content of the content o	Gm /2/29/20 Office of Oil and Ga FEB - 2 2021
Subscribed and swom before me this 29th day of	December , 20 20 /M
MAD. ME	Notary Public OFFICIAL SEAL / 12-25-20
My commission expires	2022 NOTARY PUBLIC STATE OF WEST VIRGINIA MICHAEL D MCCLUNG 14/202
	MY COMMISSION EXPIRES JUNE 19, 2022

Operator's	Wall	No			
Oberators	W CII	INO.			

roposed nevegetation ries	atment: Acres Disturbed <1.0	Preveg etation pH 6.5	
Lime 2	Tons/acre or to correct to p	Н 7	
Fertilizer type 10	-10-10		
Fertilizer amount	600	lbs/acre	
Mulch 2	Ton:	s/acre	
	Se	eed Mixtures	
Ī	emporary	Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Rye	40	Orchard Grass and/or Tall Fes	cue 29
		Birdsfoot trefoil (empire)	9
		Applied Dire	12
Attach: Maps(s) of road, location, porovided). If water from the L, W), and area in acres, o	oit and proposed area for land apple	Annual Rye Intil indigenous plants re-establish of the indigenous plan	info have been
Attach: Maps(s) of road, location, p provided). If water from the (L, W), and area in acres, o Photocopied section of invo	oit and proposed area for land apple pit will be land applied, provide of the land application area.	intil indigenous plants re-establish o	info have been of the pit, and dimensions
Attach: Maps(s) of road, location, p provided). If water from the (L, W), and area in acres, o	oit and proposed area for land apple pit will be land applied, provide of the land application area.	ication (unless engineered plans including this water volume, include dimensions (L, W, D) of	info have been of the pit, and dimensions
Attach: Maps(s) of road, location, pprovided). If water from the (L, W), and area in acres, open across of the complex section of involved by:  Plan Approved by:	oit and proposed area for land apple pit will be land applied, provide of the land application area.	ication (unless engineered plans including this water volume, include dimensions (L, W, D) of	info have been of the pit, and dimensions
Attach: Maps(s) of road, location, pprovided). If water from the (L, W), and area in acres, opening the photocopied section of involved by:	oit and proposed area for land apple pit will be land applied, provide of the land application area.  Solved 7.5' topographic sheet.	ication (unless engineered plans including this water volume, include dimensions (L, W, D) of	info have been of the pit, and dimensions
Attach: Maps(s) of road, location, pprovided). If water from the (L, W), and area in acres, open to the complex section of involved section of involved by:	oit and proposed area for land apple pit will be land applied, provide of the land application area.  Solved 7.5' topographic sheet.	ication (unless engineered plans including this water volume, include dimensions (L, W, D) of	info have been of the pit, and dimensions
Attach: Maps(s) of road, location, porovided). If water from the L, W), and area in acres, o Photocopied section of involved and approved by:	oit and proposed area for land apple pit will be land applied, provide of the land application area.  Solved 7.5' topographic sheet.	ication (unless engineered plans including this water volume, include dimensions (L, W, D) of	info have been of the pit, and dimensions
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WW-9- GPP Rev. 5/16

	, 7
Page	of
API Number 47 - 035	- 00493
Operator's Well No.	

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

Condy Crook	Quad: Sandyville
Vatershed (HUC 10): Sandy Creek	Quad: Saridyville
arm Name:	
. List the procedures used for the treatment and discharge groundwater.	of fluids. Include a list of all operations that could contaminate the
site, but located within secondary containmen	tities of fuel, oil, and lubrications will be stored on it.  irom construction equipment are the only sources
All accumulated fluids to be hauled off site to	UIC disposal facility.
. Describe procedures and equipment used to protect groun	dwater quality from the list of potential contaminant sources above.
List the closest water body, distance to closest water bodischarge area.	ody, and distance from closest Well Head Protection Area to the
Cherry Camp Run - 0.16 miles. Ravenswood	Municipal Water Works (WV3301810) - 4.72
miles.	
	gulated for groundwater protection.
miles.	egulated for groundwater protection.  FEB

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

WW-9- GPP Rev. 5/16

Page	Z of Z
API Number 47 - 035	- 00493
Operator's Well No	

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 proper	rty.
Describe the groundwater protection instruction and training to be provided to the emprovide direction on how to prevent groundwater contamination.	ployees. Job procedures shall
During routine tailgate meetings, groundwater protection will be a topic	c of discussion.
Provide provisions and frequency for inspections of all GPP elements and equipment.	
	icants will be stored on
No fertilizer will be stored on site. Small quantities of fuel, oil, and lubresite, but located within secondary containment. Construction equipme	
No fertilizer will be stored on site. Small quantities of fuel, oil, and lubresite, but located within secondary containment. Construction equipme	
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 lubresite, but located within secondary containment. Construction equipme for leaks or spills.	ent will be inspected daily
No fertilizer will be stored on site. Small quantities of fuel, oil, and lubresite, but located within secondary containment. Construction equipme	ent will be inspected daily

WW-4A Revised 6-07

1) Date:	12/24/2020	
2) Operator	r's Well Number	
Ripley 7296		

3) API Well No.: 47 -

035

00493

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

	ner(s) to be served		(a) Coal Operato		
(a) Name	Paul E. and Patricia Ar		_ Name	Not operated.	
Address	714 Crooked Run Roa		Address		
77.3.37	Ravenswood, WV 261	64-3826		(A) 111 D 1 111	
(b) Name	1			wner(s) with Declaration	
Address	-		Name	-	
	-		Address		
(c) Name			Name	-	
Address	-		Address	-	
ridaroso	-		_	-	
Inspector	Joe Taylor	1	(c) Coal Le	ssee with Declaration	
Address	1478 Claylick Road	01	Name		
	Ripley, WV 25271	10/	- Address	-	
Telephone	304.380.7469	1/	- consesses		
			Form WW-4B, which	a sets out the parties involved in	n the work and describes the
(2) The The reason However, y Take notice accompany Protection, the Applic	you are not required to take e that under Chapter 22-6 ring documents for a perm with respect to the well a ation, and the plat have b	howing the well location nents is that you have right any action at all.  of the West Virginia Codit to plug and abandon a vice the location described of the mailed by registered	hts regarding the appli e, the undersigned well well with the Chief of to the attached Applicator or certified mail or de	operator proposes to file or has filed to Office of Oil and Gas, West Virgin ion and depicted on the attached For blivered by hand to the person(s) na	I this Notice and Application and nia Department of Environmental m WW-6. Copies of this Notice,
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Oil and Gas Privacy Notice

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

## SURFACE OWNER WAIVER

Operator's Well Number

Ripley 7296

#### INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

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

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

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

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

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

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

The proposed well work will constitute a hazard to the safety of persons.

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Office of Oil and Gas

- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- The proposed well work fails to protect fresh water sources or supplies;

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5) The applicant has committed a substantial violation of a previous permit or a substantial violation of or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

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

#### **VOLUNTARY STATEMENT OF NO OBJECTION**

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

I further state that I have objection to a permit being issued FOR EXECUTION BY A NATUR. ETC.	on those materials.	ne planned work	s described in these materials, and I have no FOR EXECUTION BY A CORPORATION,
·	Date	Name	
Signature		By	
		Its	Date

Signature

** *	** *	40
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API No.	47-035-00493
Farm Name	
Well No.	Ripley 7296

## INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less then five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

	WAIVER	
has examined this proposed pluggi	ator/ owner/ lessee/ ing work order. The undersigned has no ne well operator has complied with all a egulations.	objection to the work proposed to be
Date:		
	By:	
	Its	RECEIVED Office of Oil and Gas
		FEB - 2 2021
		WV Department of Environmental Protection

Columbia Gas Transmission, LLC

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



December 24, 2020

Paul and Patricia Shockey 714 Crooked Run Road Ravenswood, WV 26164-3826

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to plug and abandon an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Ripley 7296 (API 47–035–00493).

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

Regards,

Jim Amos Team Leader Well Engineering & Technology Columbia Gas Transmission, LLC RECEIVED
Office of Oil and Gas

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WV Department of Environmental Protection

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION O	N DEL WERY
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.  1. Article Addressed to:  PAUL & PATRICIA SHOCKEY  714 CROOKED Ruw RD  RAVENSWOOD, WV 26/64-3826	A. Signature  X  B. Received by Printed Name)  D. Is delivery address different from If YES, enter delivery address	☐ Agent ☐ Addressee ☐ C. Date of Delivery
9590 9402 3688 7335 3537 65  2. Article Number (Transfer from sensitive tehnill 7017 0460 0001 0359 547	3. Service Type  Adult Signature Adult Signature Restricted Delivery Certified Mail Certified Mail Restricted Delivery Callect on Delivery Pelivery Restricted Delivery I Restricted Delivery	☐ Priority Mail Express®☐ ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery☐ ☐ Return Receipt for Merchandise☐ ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery
PS Form 3811, July 2015 PSN 7530-02-000-9053	(over \$500)	Delivery

