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

API <u>47</u> - 035 - 00476 County Jackson	District Ravenswood
Quad Sandyville, WV Pad Name	Field/Pool Name Ripley Storage
Farm name_Fisher, Ralph	Well Number 7294
Operator (as registered with the OOG) Columbia Gas Transmission	
Address PO Box 1273 City Charleston	State WV Zip 25314
As Drilled location NAD 83/UTM Attach an as-drilled plat, prof Top hole Northing 4304736.39 m Landing Point of Curve Northing N/A Bottom Hole Northing not measured (vertical wellborn)	Easting 439795.24 m Easting N/A
Elevation (ft) 710.0 GL Type of Well New	Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A	Vertical Depth Type 🖪 Deep 🗆 Shallow
Type of Operation □ Convert □ Deepen □ Drill □ Plug Back	□ Redrilling ■ Rework ■ Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil □ Secondary Rec	overy Solution Mining Storage Other
Type of Completion Single	
Mud Type(s) and Additive(s) N/A - no drilling performed	
Date permit issued 7/7/17 Date drilling commenced Date rework activities began 11/3/17 Date rew Verbal plugging (Y/N) N/A Date permission granted	ork activities ceased 11/8/17 RECEIVED
Please note: Operator is required to submit a plugging application within	5 days of verbal permission to plug JUL 11 2018
Salt water depth(s) ft none observed during rework Void(s) er	WV Department of none observed during rework encountered (Y/N) depths none observed during rework encountered (Y/N) depths none observed during rework

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API 47- 035	_ 00476	Farm name	Fisher, Ra	alph		Well	number_729	4	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	_	Basket Depth(s)		t circulate (Y/N) details below*
Conductor									
Surface				,	·				
Coal									
Intermediate 1					•				
Intermediate 2									
Intermediate 3									
Production									
Tubing									
Packer type and de	epth set								
CEMENT DATA	No casing or tubing ra	n during rework, no casir Number of Sacks	ng or tubing cemen Slurry wt (ppg	Y	rk, and no cas	Volume	led during rework. Cemen Top (MI		WOC (hrs)
Conductor									
Surface									
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production									
Tubing									
Drillers TD (ft Deepest forma Plug back pro	tion penetrated o	riskany		Loggers T Plug back					
Kick off depth	(ft)								
Check all wire	line logs run	•	□ density □ resistivity		ed/direction		duction mperature	□sonic	
Well cored	Yes 🖪 No	Conventiona	l Sidew	all	We	ere cuttings	collected	Yes ■	No
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									UL 1 1 2018
WAS WELL O	COMPLETED AS	SHOT HOLE	□ Yes 🛔	No DE	ETAILS .			WV Enviror	Department of mental Protection
WAS WELL O	COMPLETED OF	PEN HOLE? 🛛	Yes 🖪 No	DET	AILS				
WERE TRAC	ERS USED 🗆 Y	es ■ No	ΓΥΡΕ OF TR	ACER(S)	JSED				

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_Well number___7294

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
N/A					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	11/6/17	3.5	0 - vacuum	N/A	N/A	0	30	500 gal HCI
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					***************************************			JUL 11 2018
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Please insert additional pages as applicable.

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	_ 00476	Farm	_{name} Fisher, F	Ralph		Well number	7294	
PRODUCING	FORMATION	J(S)	<u>DEPTHS</u>					
Oriskany (natura				TVD	4853 - 4867'	MD		
Orionary (nature	ar gao otorago,			_ 1 V D _	1000	WID		
		-		terationed A				
Please insert ad	ditional pages	as applicable.				-		
GAS TEST	□ Build up	□ Drawdown	Open Flow	(OIL TEST 🗆 I	Flow Pump		
SHUT-IN PRE	SSURE Su	rface 1355	_psi Botto	m Hole	psi	DURATION (OF TEST 0.	75 hrs
OPEN FLOW	Gas 15000 me	Oil efpd	NGL bpd	bpd _		GAS MEASU Estimated		□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT					ROCK TYPE AND	and the second second	
	NAME TVD 0	TVD	MD 0	MD	TYPEOFFE	LUID (FRESHWAI	ER, BRINE, U	IL, GAS, H ₂ S, ETC)
			-					

				9000 yu. 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				

Please insert ad	ditional pages	as applicable.						
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Logging Compa Address	any NA		City	And the second program of the second		State	Zin	RECEIVED
						State	Zip	
Cementing Con	npany N/A		City			Ctata	7in	Office of Oil and Gas
			City			State	Zip	JUL 11 2018
Stimulating Con								
Address Hall Ro Please insert ad			City	bucknannor	1	State	Zip <u>zozc</u>	⁰¹ WV Department of Environmental Protection
Completed by	James Amos		m: 1 C-	MET E	Telephone	304-483-0073	104/40	
Signature	you C	un	Title Sr	vvE1 Engine	er .	Date _	/24/18	
Submittal of Hy	draulic Fractu	ring Chemical I	Disclosure Infor	mation	Attach copy o	f FRACFOCUS	Registry	

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