## State of West Virginia Division of Environmental Protection Section of Oil and Gas Well Operator's Report of Well Work

Farm Name: <u>Grover W &amp; Rebecca Collins</u>						Operator Well ID: <u>Collins #1</u>				<u>#1</u>
LOCATION	Elevation: District: Latitude:	<u>766'</u> <u>Center</u> 1,090 ft	South of	39 °	00 '	00 "	Quadrar County:	ngle:	<u>Grantsv</u> Calhour	
	Longitude:	4,720 ft	West of	81 °	05'	14 "				
	erfield Producti . Box 757 ntsville, WV 20			Casir Tub 9 5	ing	Used i Drillin 30'	ug W	t in ell 0'	Cu	Fill-Up .Ft. ven
Agent: Steph		Ļ		7	"	249'	24	9'	С	TS
Inspector: <u>Ed</u> Date Permit Iss Date Well work	ued: 09/05/20			4 ½	2''	2264	22	64'	1	04
Date Well Wor Verbal Pluggin Granted on / Rotary 🔀 Cal	g Permission /	09/15/2008								
Total Depth (ft) Fresh Water De Salt Water Dep	): <u>DTD:2506', L</u> epth (ft): <u>80'</u> th (ft.): <u>NA</u>		 ⊠)							
Is coal being m Coal Depths (ft										
1 <sup>st</sup> Producing For	rmation Ber	-00	Op	en Flo	w Dat		38' ft to 21	48' ft		
Gas: In Fi Ti	itial Open Flow	v 150 ow between	Mcf/day Mcf/day Initial and Fina psig after		Oil 72 72	: Initial	l Open Flo Open Flov	w		bbl/day bbl/day
2 <sup>nd</sup> Producing Fo				Pay Z	one De		ft to	ft		
Fi Ti	itial Open Flow nal Open Flow ime of Open Fl atic Rock Pres	ow between	Mcf/day Mcf/day Initial and Fina psig after	al Tests	Oil					bbl/day bbl/day
Fi Ti	itial Open Flov nal Open Flow	ow between	Mcf/day Mcf/day Initial and Fina psig after		one De Oil	: Initial				bbl/day bbl/day
NOTE: ON BACK	OF THIS FOR	M PUT THE ANGE, ETC.	FOLLOWING: 1 2). THE WELL 1	LOG WI	HICH IS	FPE FOR	RATED INT EMATIC D			GICAL-RECORD
Signed	J	52	10	Sr	5	2.	- (		MAY	1 2013
- 0		SATTERFI	ELD PRODU	CHOI	N INC			W	V Dep	05/10/20
	Date: 4-Z							Envir	onmei	ital Protect

Perforat	ted Int	tervals
- 4		

1<sup>st</sup> Stage Berea 31 holes from 2138 ft to 2148 ft

## **Fracturing / Stimulation**

1<sup>st</sup> Stage

BereaType of TreatmentCross LinkTotal Acid250 Gal of 15% HClBreakdownAverage Rate20.6 scf/min □ or bpm 🛛ATP 1015Total Fluid374 bblTotal Nitrogen 0 scfISIP839 psi5 min 795 psi

Cross Link Breakdown Pressure 2026 psi ATP 1015 psi MTP 1172 psi Total Sand 27,340 lb of 20/40

Well Log

Formation Name	Тор	Bottom	Comments
Sand/Shale	0	980	
Salt Sand	980	1218	
Sand/Shale	1218	1438	
Maxon	1438	1494	
Sand/Shale	1494	1608	
Little Lime	1608	1632	
Big Lime	1632	1758	
Big Injun	1758	1734	
Sand/Shale	1734	1820	
Weir	1820	1920	
Pocono Shale	1920	2138	
Berea	2138	2148	
Pocono Shale	2148	2512	
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