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

API 47 - 043 _ 03487	County LINCOLN	Distric	t DUVAL			
Quad GRIFFITHSVILLE 7.5'		Field/Pool Name GRIFFITHSVILLE				
Farm name COY, RANDALL & PA		Well I				
Operator (as registered with the OOG)	H.G. ENERGY LLC					
Address 5260 DuPONT ROAD	City PARKER	SBURG St	ate WV	Zip 26101		
Landing Point of Curve	Attach an as-drilled plat, Northing 4,232,192 M Northing Northing 4,232,458 M	profile view, and devia Easting 41 Easting 418	5,862 M			
Elevation (ft) 960' GL	Type of Well □New	Existing T	ype of Report	□Interim ■Final		
Permit Type Deviated Ho	orizontal Horizontal 6A	□ Vertical D	epth Type	□ Deep ■ Shallow		
Type of Operation ■ Convert □ D	eepen □ Drill □ Plug F	Back □ Redrilling	□ Rework	☐ Stimulate		
Well Type □ Brine Disposal □ CBM	☐ Gas ☐ Oil ■ Secondary	Recovery Solution	Mining □ Sto	rage Other		
Drilled with □ Cable ■ Rotary Drilling Media Surface hole ■ Air Production hole ■ Air □ Mud □ Mud Type(s) and Additive(s) N/A	□ Mud ■Fresh Water Fresh Water ■ Brine	Intermediate hole	Air □ Mud	■ Fresh Water □ Brine		
Date permit issued6/29/15	Date drilling commenced					
Date completion activities began	7/27/21 Date	completion activities co	eased	7/28/21		
Verbal plugging (Y/N) N	Pate permission granted	Gra	nted by			
Please note: Operator is required to sul	omit a plugging application w	ithin 5 days of verbal pe	ermission to pl	ug		
Freshwater depth(s) ft	None Open	mine(s) (Y/N) depths _		None		
	160' Void(s	s) encountered (Y/N) d	epths	None		
Coal depth(s) ft 584'-	Caven	n(s) encountered (Y/N)	depths	None		
Is coal being mined in area (Y/N)	N	-0		Reviewed by		

CASING	Hole	Casing		New or	Grade	Basket		ent circulate (Y/N
STRINGS Conductor	Size 12 1/4"	Size 11 5/8"	Depth 30'	Used	wt/ft LS	Depth(s)	* Provid	e details below* Sand In
Surface	8 3/4"	7"	645'	New	LS	64'	Y	
Coal	0 3/4	1	043	INEW		04		
intermediate 1							-	
ntermediate 2								
ntermediate 3								
Production	6 1/4"	4 1/2"	2803.9'	New	J-55			Υ
ubing	0 1/4	2 3/8"	2549'	Used	J-55			
acker type and d	epth set	Tension packer s		0000	0 00	9		
CEMENT DATA onductor	Class/Typ of Cemen			-			ment (MD)	WOC (hrs)
urface	Dog Nos	4 160	400 450		.18 1	20 8	face	8
Coal	Reg Nea	at 160	15.6)	.10	39 Sur	lace	0
termediate 1			_					
itermediate 2								
termediate 3						-		
roduction	50:50 Pozr	nix 120/12	5 13.2/14	1.2 1.64	4/1.27 197	/186 1	02'	8
ubing								
rillers TD (ft) eepest format lug back prod	ion penetrate	d Berea		Loggers Tl Plug back				
ick off depth	(ft) 650'							
heck all wirel	ine logs run	acaliper neutron	densityresistivity	deviate gamma	d/directional ray	■ induction ■ temperature	□sonic	
Vell cored	Yes 🗎 No	Convention	onal Sidev	vall	Were cutt	ings collected	■ Yes □	No
ԵՏ ՐԵՄԵԵ ΤΤ	IE CENITD AT	LIZER PLACEMI	NT HEED EO	S EVCD CV	SING STRING			
		ntralizer placed mid string on 7"	AT OBED FOR		Driix1e Driie.	-		
AS WELL C	OMPLETED	AS SHOT HOLE	□ Yes 💄	No DE	TAILS			

API 47- 043 _ 03487

Farm name_COY, RANDALL & PATRICIA Well number_227

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	11/4/15	2648'	2658'	40	Berea
<u> </u>	1 17 17 10	20.0	2000	10	
-					
-					

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	11/6/15	4	1237	2861	1120	1,000	164	
-								
						 		
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Please insert additional pages as applicable.

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PRODUCING	FORMATION(<u>S)</u>	DEPTHS							
Berea			2436'- 2458'	TVD	2643'- 2667'	MI)			
				1,12						
		====	= = = = = =							
Please insert ac	iditional pages a	s applicable.								
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL TEST 🗆	Flow	□ Pump)		
SHUT-IN PRE	SSURE Surf	ace	psi Bott	om Hole	psi	DURA	TION (OF TE	ST	hrs
OPEN FLOW	Gas mcf	Oil pd	NGL bpd	_ bpd			MEASU imated			□ Pilot
ITHOLOGY/	TOP	BOTTOM	TOP	воттом						
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN F	T DESCRIBE	ROCK TY	PE AND	RECOR	RD QUA	NTITYAND
	NAME TVD	TVD	MD	MD	TYPE OF FI	LUID (FR	ESHWAT	ER, BR	INE, OII	., GAS, H₂S, ETC
Sand/Shale	0	584	0	584						
Pittsburgh Coal	584	590	584	590						
Sand/Shale	590	1726	590	1846						
Big Lime	1726	1918	1846	2183						
Big Injun	1918	2028	2183	2206						
Shale	2028	2416	2206	2622						
Coffee Shale	2416	2436	2622	2643						
Berea	2436	2458	2643	2667	Dril	led direc	tional N	4.3° W	a dista	nce of 769'
Shale	2458	2625	2667	2842						
TD	2625		2842							
lease insert ad	ditional pages as	applicable.								
		• •								
Orilling Contract Address 11565 S	Ctor Decker Drilli	rig	011	Vincent		Q	ОН	α.	15791	
ddress 11305 3	state Route 676		City	Vincent		State		Zıp	45784	
ogging Compa	ny Weatherford	International								
ddress 11000 F	Performance PL		City	Youngstown		State	ОН	Zip	44502	
'ementing Com	pany Universal	Services								
ddress 14 Sewe	er Plant Rd		City	Buckhannon		State	WV	Zip	26201	
timulatina Con	npany Produce	rs Service Con),							
ddress 109 Sou	ith Graham Street		City	Zanesville		State	ОН	Zin	43701	
	litional pages as	applicable.	City			_ State		<u>~</u> 1P		
ompleted be	Roger Heldman				Telephone	304-420	-1107			
ambieten of	- J. Holdman	- 2			ger relephone					