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

API 47_ 033 _ 05981	Dis	District Grant			
Quad West Milford 7.5'	County Harrison Pad Name Antoni	o 1206 N-4H Fie	eld/Pool Na	ne	
Farm name Charles R. & Franklin	L. Sutton	W	ell Number	Antonio 1	1206 N-4H
Operator (as registered with the OOG)	HG Energy II Appa	lachia, LLC			
Address 5260 Dupont Road	City Park	ersburg	State W	/	Zip 26101
Landing Point of Curve	Northing 14220786.49 Northing	Easting	1815519.3	1	erim <b>■</b> Final
Permit Type   Deviated   H	orizontal   Horizont	al 6A	Depth T	/pe 🗆 I	Deep   Shallow
Type of Operation □ Convert □ I	Deepen  Drill  □	Plug Back   Redrillin	ig □ Rev	work 🗆 St	timulate
Well Type □ Brine Disposal □ CBM	I ■ Gas □ Oil □ Sec	ondary Recovery   Solu	tion Mining	□ Storage	□ Other
Type of Completion □ Single □ Mu Drilled with □ Cable ■ Rotary  Drilling Media Surface hole ■ Air Production hole □ Air □ Mud □ Mud Type(s) and Additive(s)  Synthetic Oil Base Mud, Additive	· □ Mud □Fresh Wat □ Fresh Water □ Brine	eer Intermediate hol		□ Mud 🗂 F	ther Wasn't completed Fresh Water □ Brine fier, Base Oil
Date permit issued2/07/2020  Date completion activities began  Verbal plugging (Y/N)Y	Date drilling comm Not completed Date permission granted	Date completion activit	ies ceased_		d11/30/2020 NA d, DEP Inspector
Please note: Operator is required to s	ubmit a plugging applica	ation within 5 days of verl	bal permissi	on to plug	
Freshwater depth(s) ft	NA	Open mine(s) (Y/N) dep	ths		N
Salt water depth(s) ft	NA	Void(s) encountered (Y/			N
	NA .	Cavern(s) encountered (	Y/N) depth:	S	N
Is coal being mined in area (Y/N)	N				

Reviewed by: 5 | 3 | 202 |

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API <u>47</u>	County	District					
Quad	Pad Name	Field/Pool Name					
Farm name		Well Number					
Operator (as registered with t	he OOG)						
Address	City	State Zip					
Top he Landing Point of Cu Bottom H	ole Northing urve Northing ole Northing	Easting Easting					
Elevation (ft)	GL Type of Well	□New □ Existing Type of Report □Interim □Final					
Permit Type	□ Horizontal □ Horizont	tal 6A    Depth Type    Deep    Shallow					
Type of Operation □ Conver	rt 🗆 Deepen 🗆 Drill 🗆	Plug Back □ Redrilling □ Rework □ Stimulate					
Well Type ☐ Brine Disposal	l □ CBM □ Gas □ Oil □ Sec	ondary Recovery □ Solution Mining □ Storage □ Other					
	le □ Multiple Fluids Produc Rotary	ced   Brine   Gas   NGL   Oil   Other					
•	e □ Air □ Mud □Fresh Wat Mud □ Fresh Water □ Brine )						
Date permit issued	Date drilling comm	nenced Date drilling ceased					
Date completion activities be	gan	Date completion activities ceased					
Verbal plugging (Y/N)	Date permission granted	Granted by					
Please note: Operator is requ	nired to submit a plugging applica	ation within 5 days of verbal permission to plug					
Freshwater depth(s) ft		Open mine(s) (Y/N) depths					
Salt water depth(s) ft		Void(s) encountered (Y/N) depths					
Coal depth(s) ft	· · · · · · · · · · · · · · · · · · ·	Cavern(s) encountered (Y/N) depths					
Is coal being mined in area (Y	Y/N)	 Reviewed by:					

WR-35 Page \_\_\_ of \_\_\_ Rev. 8/23/13 API 47- \_\_\_\_ - \_\_\_\_ Farm name\_\_\_ \_Well number\_\_\_ **CASING** Hole Casing New or Grade Basket Did cement circulate (Y/N) **STRINGS** Used wt/ft Depth(s) \* Provide details below\* Size Size Depth Conductor Surface Coal Intermediate 1 Intermediate 2 Intermediate 3 Production Tubing Packer type and depth set Comment Details \_ WOC CEMENT Class/Type Number Slurry Yield Volume Cement (ft 3/sks)  $(ft^{\frac{3}{2}})$ DATA of Cement of Sacks wt (ppg) Top (MD) (hrs) Conductor Surface Coal Intermediate 1 Intermediate 2 Intermediate 3 Production Tubing \_\_\_\_\_ Loggers TD (ft) \_\_\_\_\_ Drillers TD (ft) Deepest formation penetrated \_\_\_\_\_\_ Plug back to (ft) \_\_\_\_\_ Plug back procedure \_\_\_\_\_ Kick off depth (ft)\_\_\_\_\_ Check all wireline logs run □ deviated/directional □ caliper □ density □ induction  $\square$  neutron □ resistivity □ gamma ray  $\Box$  temperature □sonic Well cored □ Yes □ No □ Conventional □ Sidewall Were cuttings collected □ Yes □ No DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING DETAILS \_\_\_\_\_ WAS WELL COMPLETED AS SHOT HOLE □ Yes □ No WAS WELL COMPLETED OPEN HOLE? □ Yes □ No DETAILS \_\_\_\_\_

TYPE OF TRACER(S) USED \_\_\_\_\_

WERE TRACERS USED □ Yes □ No

API 47	Farm name_	Well number

## PERFORATION RECORD

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

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)

Please insert additional pages as applicable.

Rev. 8/23/13								
API 47	_ =	Farm r	name			Well number_		
			<u>DEPTHS</u>	_TVD		MD		
Please insert ad	lditional pages a	s applicable.						
GAS TEST	□ Build up □	Drawdown	□ Open Flow	(	OIL TEST 🗆 1	Flow □ Pump		
SHUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi	DURATION O	F TEST	hrs
OPEN FLOW		Oil pd b	NGL opd	bpd		GAS MEASU		□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD  0	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD 0	BOTTOM DEPTH IN F MD	T DESCRIBE	ROCK TYPE AND I		
Drilling Contra	lditional pages a		City		<u> </u>	State	Zip	
Logging Company City						State	Zip	
Cementing Company City						State	Zip	
Address	mpanylditional pages a					State	Zip	
	,					Date		

WR-35

Page \_\_\_ of \_\_\_