

JA

WR-35  
Rev. 8/23/13

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

API 47-033-05776 County HARRISON District TEN MILE  
Quad WOLF SUMMIT 7.5' Pad Name W.F. WILLIAMS Field/Pool Name WOLF SUMMIT  
Farm name HUFFMAN, BRIAN V. Well Number 234  
Operator (as registered with the OOG) H.G. ENERGY LLC  
Address 5260 DuPONT ROAD City PARKERSBURG State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,347,052 M Easting 543,322 M  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing 4,347,235M Easting 543,437 M

Elevation (ft) 1,168' 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 Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
N/A

Date permit issued 7/9/13 Date drilling commenced 11/19/14 Date drilling ceased 12/7/14  
Date completion activities began 12/12/14 Date completion activities ceased 12/23/14  
Verbal plugging (Y/N) N Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 250' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft N Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 425'- 432' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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Reviewed by: \_\_\_\_\_

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	12 1/4"	11 5/8"	30'	Used	LS		Sand In
Surface	8 3/4"	7"	507'	New	LS	64'	Y
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	3069.7'	New	J-55		Y
Tubing							
Packer type and depth set							

Comment Details Circulated Est. 50 sks to surface on 7" surface cement job. Circulated Est. 27 sks to surface on 4 1/2" cement job.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Reg Neat	110	15.6	1.18	130	Surface	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix	140/150	13.2/14.2	1.64/1.27	230/186	Surface	8
Tubing							

Drillers TD (ft) 3089'      Loggers TD (ft) 3105'  
 Deepest formation penetrated Fifth Sand      Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 650'

Check all wireline logs run       caliper     density     deviated/directional     induction  
     neutron     resistivity     gamma ray                     temperature     sonic

Well cored     Yes     No      Conventional      Sidewall                    Were cuttings collected     Yes     No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_  
20 Centralizers every 88 from bottom on 4 1/2", Centralizer placed mid string on 7"

WAS WELL COMPLETED AS SHOT HOLE     Yes     No      DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?     Yes     No      DETAILS \_\_\_\_\_

WERE TRACERS USED     Yes     No      TYPE OF TRACER(S) USED \_\_\_\_\_

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PRODUCING FORMATION(S)

DEPTHS

Fifth Sand 2740'- 2752' TVD 2916'- 2928' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW Gas \_\_\_\_\_ mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
Sand/Shale	0	425	0	425	
Pittsburgh Coal	425	432	425	432	
Sand/Shale	432	1782	432	1850	
Big Lime	1782	1854	1850	1930	
Big Injun	1854	1922	1930	2008	
Shale	1922	2336	2008	2474	
Fifty Foot	2336	2369	2474	2510	
Shale	2369	2430	2510	2578	
Sand	2430	2576	2578	2738	
Shale	2576	2740	2738	2916	
Fifth Sand	2740	2752	2916	2928	Drilled directional N 33° E a distance of 795'
Shale	2752	2905	2928	3089	
TD	2905		3089		

Please insert additional pages as applicable.

Drilling Contractor Decker Drilling

Address 11565 State Route 676 City Vincent State OH Zip 45784

Logging Company Weatherford International

Address 777 North River Avenue City Weston State WV Zip 26452

Cementing Company Universal Services

Address Hall Rd City Buckhannon State WV Zip 26201

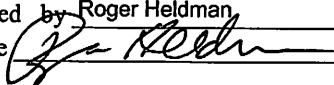
Stimulating Company Universal Services

Address Hall Rd City Buckhannon State WV Zip 26201

Please insert additional pages as applicable.

Completed by Roger Heldman

Telephone 304-420-1107

Signature 

Title Operations Manager

Date 1/20/15

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33.05776

Field Ticket - (This is not an invoice)		Start Date -	12/23/2014		End Date -	12/23/2014	
Customer	HG Energy LLC	Customer No.	5069		Project No.		
	5260 DUPONT RD	AFE / PO No.			Task No.		
	PARKERSBURG, WV 26101	Job Type	Frac		Formation	Upper Devonian	
District	Buckhannon	Job Type Description	1 Stage Crosslink Frac		Operator Name	Donald Tiziani	
Bid Number:		Casing	New/Used	Size	From	To	Weight
Well Name and No.	W.F. Williams 234		used	4.5	1	2990	
Well Type	County: Harrison	Tubing			Arrived on Location	8:15	Left Location
Gas	Township:	Open Hole	Time	Date	Time	Date	No. of Shots
State	API #	Perforations					No. of Shots
WV	047-033-05776	Perforations			Depth	Drilling Contractor	Max PSI Allowed
							4000
Product Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
800000	Unit Mileage Charge Trucks and Vans (Except Bulk Units), Per Unit Mile	Mi	210.000				
800010	Crew & Light Duty Vehicle Mileage Charge, Per Unit Mile	Mi	70.000				
800051	Transport Delivery Charge (4 Hr Minimum), Per Hr	Hrs	4.000				
800070	Proppant and Bulk Delivery Charges, Per Ton Mile	TM	521.500				
802306	Minimum Pump Charge, <1500 HP, 1st 4 Hrs	Ea	1.000				
803401	0 - 10 BPM Computerized Blender, 1st 4 Hrs	Ea	1.000				
810010	Treatment Van, (WINFRAC Data Monitoring or Similar)	Job	1.000				
820035	Unihib G	Gal	0.250				
820505	LEB 10X - Liquid Enzyme Breaker	Qts	4.000				
820955	Cla-Chek G	Gal	6.000				
821125	Unilink 8.5 Crosslinker (Borate)	Gal	11.000				
822235	Unigel 19 XL	Lb	200.000				
822555	Iron Control - A (EC6673A)	Gal	5.000				
822936	NE-90G	Gal	2.000				
823805	Supersurf, Surfactant (Non-Ionic)	Gal	8.000				
825030	15% HCl Acid, Area 1	Gal	250.000				
833000	20-40 mesh White Sand, Area 1	CWT	149.000				
837000	Proppant Pumping Charge, 20/40 mesh or smaller	CWT	149.000				
Mileage Calculation Section		Unit of Measure	Quantity				
800000	Unit Mileage Charge Trucks and Vans (Except Bulk Units), Per Unit Mile	Mi					
		UNITS					
800070	Proppant and Bulk Delivery Charges, Per Ton Mile	TM					
		Loaded Total Miles					
860050	Cement Delivery Charge	TM					
		Loaded Total Miles					
Comments:							
	Customer Representative:						
X	CUSTOMER AUTHORIZED AGENT SIGNATURE		UWS Authorized Agent:				
			Date:				

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