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

API 47-033-05784 County HARRISON District TEN MILE  
Quad SALEM 7.5' Pad Name J.M. FULTZ Field/Pool Name WOLF SUMMIT  
Farm name MYERS, EDGAR LEE JR. Well Number 244  
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 4,347,103 M Easting 542,485 M  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing 4,346,798 M Easting 542,547 M

Elevation (ft) 1,342' 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 8/28/13 Date drilling commenced 4/24/14 Date drilling ceased 4/27/14  
Date completion activities began 5/12/14 Date completion activities ceased 5/15/14  
Verbal plugging (Y/N) N Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

Received

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

Freshwater depth(s) ft 360' Open mine(s) (Y/N) depths JUN 18 2014  
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 703'-711' Cavern(s) encountered (Y/N) depths WV Dept. of Environmental Protection  
Is coal being mined in area (Y/N) N

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

06/27/2017

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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"	802'	New	LS	64'	Y
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 1/2"	4 1/2"	3179.55'	New	J-55		Y
Tubing							
Packer type and depth set							

Comment Details Circulated Est. 45 sks to surface on 7" surface cement job. Circulated Est. 29 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	200	15.6	1.18	236	Surface	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix/ Econo	200/85	14.2/11.8	1.27/2.93	254/250	Surface	8
Tubing							

Drillers TD (ft) 3228' Loggers TD (ft) 3232'  
 Deepest formation penetrated Fifth Sand Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 850'

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 84' from bottom on 4 1/2", Centralizer placed mid string on 7"

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS **Received**

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS JUN 18 2014

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

Office of Oil and Gas  
WV Dept. of Environmental Protection

06/27/2017



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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Fifth Sand	3016'-3022'	TVD 3054'-3060' 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 \_\_\_\_\_ Oil \_\_\_\_\_ NGL \_\_\_\_\_ Water \_\_\_\_\_ GAS MEASURED BY  
 mcfpd  bpd  bpd  bpd  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	703	0	703	<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">Received</div> <div style="font-size: 1.2em; font-weight: bold; margin-bottom: 10px;">JUN 18 2014</div> <div style="font-size: 0.8em; margin-bottom: 10px;">Office of Oil and Gas WV Dept. of Environmental Protection</div>	
Pittsburgh Coal	703	711	703	711		
Sand/Shale	711	2062	711	2083		
Big Lime	2062	2140	2083	2162		
Big Injun	2140	2192	2162	2216		
Shale	2192	2600	2216	2633		
Fifty Foot	2600	2624	2633	2656		
Shale	2624	2691	2656	2725		
Sand	2691	2845	2725	2881		
Shale	2845	3016	2881	3054		
Fifth Sand	3016	3022	3054	3060		Drilled directional S 47 degrees E a distance of 386'
Shale	3022	3188	3060	3228		
TD	3188		3228			

Please insert additional pages as applicable.

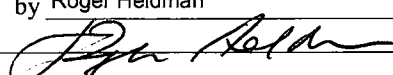
Drilling Contractor Decker Drilling  
 Address 11565 State Route 676 City Vincent State OH Zip 45784

Logging Company Weatherford International  
 Address 777 North River Avenue City Weston State WV Zip 26452

Cementing Company Baker Hughes  
 Address 2228 Philippi Pike City Clarksburg State WV Zip 26301

Stimulating Company Producers Service Corp.  
 Address 109 South Graham Street City Zanesville State OH Zip 43701

Please insert additional pages as applicable.

Completed by Roger Heldman Telephone 304-420-1107  
 Signature  Title Operations Manager Date 06/17/14

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

