

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

API 47-021-05776 County Gilmer District Glennville  
Quad Burnsville Pad Name Marshall # 1-A Field/Pool Name \_\_\_\_\_  
Farm name I.L. Morris Well Number Marshall 1-A  
Operator (as registered with the OOG) Horizon Energy Corporation  
Address Sand Fork Road Box 111 City Sand Fork State WV Zip 26430

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1018' 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) \_\_\_\_\_

Date permit issued 06/17/2014 Date drilling commenced 10/27/2014 Date drilling ceased 10/30/2014  
Date completion activities began 11/11/2014 Date completion activities ceased 11/11/2014  
Verbal plugging (Y/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 \_\_\_\_\_ 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/N) \_\_\_\_\_ no

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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							
Surface							
Coal							
Intermediate 1	8 3/4	7"	716	new	17		Yes
Intermediate 2							
Intermediate 3							
Production	6.50	4 1/2	2930	new	10.5		no
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

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							
Coal							
Intermediate 1	Type 1	225					8 hrs.
Intermediate 2							
Intermediate 3							
Production	Strong lite 150	90					
Tubing							

Drillers TD (ft) 2984 Loggers TD (ft) 2969  
 Deepest formation penetrated 5 th Sand Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) \_\_\_\_\_

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 4 1/2 casing centralizers #2, #5, #15, #20

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

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

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



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PRODUCING FORMATION(S)	DEPTHS	
5 Th Sand	2819 TVD	2825 MD
Injun	2151	2185

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 300 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 48 hrs

OPEN FLOW Gas 300 mcfpd Oil 4 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)
Clay	0	10	0		
Sd/Sh	10	1922			
Little Lime	1922	1935			
Sd/Sh	1935	1978			
Big Lime	1978	2164			
Injun	2164	2188			
Sd/Sh	2188	2816			
5th Sand	2116	2828			
Sd/Sh	2828	2984			
T.D.	2984				

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Please insert additional pages as applicable.

Drilling Contractor Waco Oil & Gas  
Address 1595 U.S. 33 City Glenville State WV Zip 26351

Logging Company Weatherford Wireline Services  
Address 7777 North River Avenue City Weston State WV Zip 26452

Cementing Company Universal Well Service  
Address 14 Sewer Plant Road City Buckhannon State WV Zip 26201

Stimulating Company Universal Well Service  
Address 14 Sewer Plant Road City Buckhannon State WV Zip 26201

Please insert additional pages as applicable.

Completed by ROBERT R. JONES II Telephone 304-462-5758  
Signature \_\_\_\_\_ Title PRESIDENT Date 12-1-2014

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