

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

API 47-021-05781 County Gilmer District Glenville
Quad Burnsville Pad Name Marshall # 7-A Field/Pool Name _____
Farm name I.L. Morris Well Number Marshall 7-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) 988.1' 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 06/23/2014 Date drilling commenced 07/07/2014 Date drilling ceased 07/11/2014
Date completion activities began 07/17/2014 Date completion activities ceased 07/17/2014
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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01/16/2015

API 47-021 - 05781 Farm name I.L. Morris Well number Marshall 7-A

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"	722	new	17		Yes
Intermediate 2							
Intermediate 3							
Production	6.50	4 1/2	2893	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 ³ /sks)	Volume (ft. ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface							
Coal							
Intermediate 1	Type 1	125					8 hrs.
Intermediate 2							
Intermediate 3							
Production	Strong lite 150	90					
Tubing							

Drillers TD (ft) 3000 Loggers TD (ft) 2992
 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

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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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7/17/2014	2804	2810	16	5th Sand
2	7/17/2014	2154	2164	18	Injun

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 (bbbls)	Amount of Nitrogen/other (units)
1	07/17/14	26.9	2359	1277	1402	352	160	284,618
2	07/17/14	26.9	1784	1201	1118	454	216	272,140

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PRODUCING FORMATION(S)	DEPTHS	
<u>5 Th Sand</u>	<u>2804</u> TVD	<u>2810</u> MD
<u>Injun</u>	<u>2154</u>	<u>2164</u>

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 380 psi Bottom Hole _____ psi DURATION OF TEST 48 hrs

OPEN FLOW Gas 410 mcfpd Oil 6 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 ₂ S, ETC)
Clay	0	10	0		
Sd/Sh	10	1910			
Little Lime	1910	1930			
Sd/Sh	1930	1970			
Big Lime	1970	2130			
Injun	2130	2169			
Sd/Sh	2169	2804			
5th Sand	2804	2814			
Sd/Sh	2814	3000			
T.D.	3000				

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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