

WR-35  
Rev (9-11)

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

DATE: 09/29/2014  
API #: 47-085-10091

Farm name: Ira M. Haught Operator Well No.: W-1647

LOCATION: Elevation: 1133' Quadrangle: Harrisville

District: Union County: Ritchie  
Latitude: 6520 Feet South of 39 Deg. 12 Min. 30 Sec.  
Longitude 1360 Feet West of 81 Deg. 02 Min. 30 Sec.

Company: Haught Energy Corporation

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
12864 Staunton Turnpike Smithville, WV 26178	13-3/8"	40'	40'	
Agent: Warren R. Haught	9-5/8"	338'	338'	Surface (205 Sks)
Inspector: David Cowan	7"	2240'	2240'	Surface (306 Sks)
Date Permit Issued: April 10, 2014	4-1/2"	6289.5'	6289.5'	3000' (175 Sks)
Date Well Work Commenced: 06/04/2014				
Date Well Work Completed: 9/15/2014				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 6,290'				
Total Measured Depth (ft): 6,305'				
Fresh Water Depth (ft.): 75'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): None				
Void(s) encountered (N/Y) Depth(s) None				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Benson/Alexander Pay zone depth (ft) 4600', 5170'  
Gas: Initial open flow show MCF/d Oil: Initial open flow - Bbl/d  
Final open flow 200 MCF/d Final open flow - Bbl/d  
Time of open flow between initial and final tests 12 Hours  
Static rock Pressure 900 psig (surface pressure) after 24 Hours

Second producing formation Hamilton Shale Pay zone depth (ft) 5750'  
Gas: Initial open flow show MCF/d Oil: Initial open flow - Bbl/d  
Final open flow 200 MCF/d Final open flow - Bbl/d  
Time of open flow between initial and final tests 12 Hours  
Static rock Pressure 900 psig (surface pressure) after 24 Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Warren R. Haught 9/29/14  
Signature Date

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Were core samples taken? Yes \_\_\_\_\_ No X

Were cuttings caught during drilling? Yes \_\_\_\_\_ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Gamma Ray, Neutron, Density, Induction, Temp., Audio

**NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.**

Perforated Intervals, Fracturing, or Stimulating:

Perforated by Superior Well Services 7/01/2014

Perforations at: 4599' - 4619' ; 5175' - 5774' ; 5814' - 6032'

Fractured by Universal Well Services 7/02/2014

3 Stage Nitrogen Frac totaling 2,450,000 cubic feet

Plug Back Details Including Plug Type and Depth(s): NA

Formations Encountered:	Top Depth	Bottom Depth
<u>Surface:</u>		

See attached worksheet

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IMH W-1647  
API # 47-085-10091

Formation	Top	Bottom	Remarks
Red Rock & Shale	0	712	
Sand	712	747	
Red Rock	747	827	
Sand	827	847	
Red Rock	847	912	
Slate	912	1027	
Dunkard Sand	1027	1147	
Slate & Shells	1147	1372	
Gas Sand	1372	1487	
Slate	1487	1547	
1st Salt Sand	1547	1608	
Shale	1608	1648	
2nd Salt Sand	1648	1666	
Shale	1666	1692	
3rd Salt Sand	1692	1807	
Slate	1807	1892	
Maxon Sand	1892	1927	
Shale	1927	2002	
Little lime	2002	2024	
Pencil Cave	2024	2036	
Big Lime	2036	2134	
Big Injun Sand	2134	2182	
Slate Break	2182	2187	
Squaw Sand	2187	2195	
Slate & Shells	2195	2944	
Gordon	2944	2952	
Slate & Shells	2952	4592	
Riley	4592	4620	
Slate & Shells	4620	4760	
Benson Sand	4760	4773	
Slate & Shells	4773	5100	
Alexander Sand	5100	5111	
Slate & Shells	5111	5736	
Hamilton Shale	5736	5778	
Slate & Shells	5778	5822	
Elk	5822	5915	
Slate & Shells	5915	6210	
Marcellus	6210	6280	
Onandoga lime	6280	6290	
TD	6290		

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