

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: 01/09/2015
API #: 47-085-10092

Farm name: Ira M. Haught Operator Well No.: W-1648

LOCATION: Elevation: 1080' Quadrangle: Harrisville

District: Union County: Ritchie
Latitude: 8160 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 790 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: <u>Warren R. Haught</u>	9-5/8"	340'	340'	Surface (100 Sks)
Inspector: <u>David Cowan</u>	7"	2197'	2197'	Surface (315 Sks)
Date Permit Issued: <u>April 10, 2014</u>	4-1/2"	6240'	6240'	2100' (135 Sks)
Date Well Work Commenced: <u>08/14/2014</u>				
Date Well Work Completed: <u>01/5/2015</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): <u>6,242'</u>				
Total Measured Depth (ft): <u>6,270'</u>				
Fresh Water Depth (ft.): <u>72'</u>				
Salt Water Depth (ft.): <u>None</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>None</u>				
Void(s) encountered (N/Y) Depth(s) <u>None</u>				

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

Producing formation Benson Pay zone depth (ft) 4530'-4548'
Gas: Initial open flow 200 MCF/d Oil: Initial open flow 4 Bbl/d
Final open flow 100 MCF/d Final open flow 2 Bbl/d
Time of open flow between initial and final tests 12 Hours
Static rock Pressure 1200 psig (surface pressure) after 24 Hours

Second producing formation Hamilton Shale Pay zone depth (ft) 5700'-5987'
Gas: Initial open flow 200 MCF/d Oil: Initial open flow - Bbl/d
Final open flow 100 MCF/d Final open flow - Bbl/d
Time of open flow between initial and final tests 12 Hours
Static rock Pressure 1200 psig (surface pressure) after 24 Hours

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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
Signature

1/12/15
Date

01/23/2015

85-10092

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 9/18/2014

Perforations at: 4530' - 4548' ; 5701' - 5720' ; 5764' - 5840' ; 5979-5987

Fractured by Universal Well Services 09/18/2014

3 Stage Nitrogen Frac totaling 1,700,000 cubic feet

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

Formations Encountered:	Top Depth	/	Bottom Depth
Surface:			

See attached worksheet

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IMH W-1648
API # 47-085-10092

Formation	Top	Bottom	Remarks
Red Rock & Shale	0	659	
Sand	659	695	
Red Rock	695	774	
Sand	774	794	
Red Rock	794	859	
Slate	859	974	
Dunkard Sand	974	1094	
Slate & Shells	1094	1319	
Gas Sand	1319	1434	
Slate	1434	1494	
1st Salt Sand	1494	1555	
Shale	1555	1595	
2nd Salt Sand	1595	1613	
Shale	1613	1639	
3rd Salt Sand	1639	1754	
Slate	1754	1839	
Maxon Sand	1839	1874	
Shale	1874	1949	
Little lime	1949	1971	
Pencil Cave	1971	1983	
Big Lime	1983	2081	
Big Injun Sand	2081	2129	
Slate Break	2129	2134	
Squaw Sand	2134	2142	
Slate & Shells	2142	2891	
Gordon	2891	2899	
Slate & Shells	2899	4539	
Riley	4539	4567	
Slate & Shells	4567	4707	
Benson Sand	4707	4720	
Slate & Shells	4720	5047	
Alexander Sand	5047	5058	
Slate & Shells	5058	5683	
Hamilton Shale	5683	5725	
Slate & Shells	5725	5769	
Elk	5769	5862	
Slate & Shells	5862	6157	
Marcellus	6157	6227	
Onandoga lime	6227	6242	
TD	6242		

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