

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: 9/22/2014
API #: 47-085-10083

PM

FR

Farm name: James T. & Mary Lou Adkins Operator Well No.: W-1644

LOCATION: Elevation: 1010' Quadrangle: Harrisville

District: Union County: Ritchie
Latitude: 14490 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 6290 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 (120 Sks)
Inspector: David Cowan	7"	2160'	2160'	Surface (320 Sks)
Date Permit Issued: December 11, 2013	4-1/2"	5887'	5887'	2926' (250 Sks)
Date Well Work Commenced: 4/11/2014				
Date Well Work Completed: 9/17/2014				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 5,939'				
Total Measured Depth (ft): 5,939'				
Fresh Water Depth (ft.): 170'				
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 Warren/Benson/Alexander Pay zone depth (ft) 3300,4400,4950
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 1000 psig (surface pressure) after 24 Hours

Second producing formation Hamilton Shale Pay zone depth (ft) 5600'-5880'
Gas: Initial open flow show 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 1000 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
Signature

9/29/14
Date
RECEIVED
Office of Oil and Gas
10/31/2014
Department of Environmental Protection

85-10083

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 4/28/2014

Perforations at: 3210' - 3340' ; 3469' - 3500' ; 4456' - 4486'; 4952' - 4960'; 5608' - 5761'; 5865' - 5875'

Fractured by Universal Well Services 04/28/2014

3 Stage Nitrogen Frac totaling 2,400,000 cubic feet

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

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth
Surface:

See attached worksheet

Spruce Grove W-1644
 API # 47-085-10083

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Formation	Top	Bottom	Remarks
Red Rock & Shale	0	592	
Sand	592	627	
Red Rock	627	707	
Sand	707	727	
Red Rock	727	792	
Slate	792	907	
Dunkard Sand	907	1027	
Slate & Shells	1027	1252	
Gas Sand	1252	1367	
Slate	1367	1427	
1st Salt Sand	1427	1488	
Shale	1488	1528	
2nd Salt Sand	1528	1546	
Shale	1546	1572	
3rd Salt Sand	1572	1687	
Slate	1687	1772	
Maxon Sand	1772	1807	
Shale	1807	1882	
Little lime	1882	1904	
Pencil Cave	1904	1916	
Big Lime	1916	2014	
Big Injun Sand	2014	2062	
Slate Break	2062	2067	
Squaw Sand	2067	2075	
Slate & Shells	2075	2426	
Berea Sand	2426	2452	
Slate & Shells	2452	2800	
Gordon	2800	2826	
Slate & Shells	2826	4457	
Riley	4457	4482	
Slate & Shells	4482	4654	
Benson Sand	4654	4658	
Slate & Shells	4658	4948	
Alexander Sand	4948	4962	
Slate & Shells	4962	5584	
Hamilton Shale	5584	5620	
Slate & Shells	5620	5660	
Elk	5660	5728	
Slate & Shells	5728	5939	
TD	5939		