

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: 1/26/2012  
API #: 47-085-09910

Farm name: Westfall, Kenneth D. & Tracey

Operator Well No.: W-1604

LOCATION: Elevation: 1069'

Quadrangle: Smithville

District: Murphy County: Ritchie  
Latitude: 1580 Feet South of 39 Deg. 07 Min. 30 Sec.  
Longitude 5540 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.
HC 68 Box 14 Smithville, WV 26178	13-3/8"	20'	20'	
Agent: Warren R. Haught	9-5/8"	340'	340'	Surface (120 Sks)
Inspector: David Cowan	7"	1967'	1967'	Surface (300 Sks)
Date Permit Issued: February 4, 2011	4-1/2"	5758'	5758'	3800' (132 Sks)
Date Well Work Commenced: 06/03/2011				
Date Well Work Completed: 10/03/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 5,780'				
Total Measured Depth (ft): 5,788'				
Fresh Water Depth (ft.): 50'				
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) 4500', 5075'  
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) 5700'  
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

6-21-12  
Date

07/13/2012

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 7/13/2011

Perforations at: 4508' - 4527' ; 4984' - 5091' ; 5646' - 5724'

Fractured by Universal Well Services 7/13/2011

3 Stage Nitrogen Frac totaling 1,901,000 cubic feet

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

Formations Encountered:	Top Depth	Bottom Depth
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Surface:

See attached worksheet

Powers W-1604  
API # 47-085-09910

Formation	Top	Bottom	Remarks
Red Rock & Shale	0	630	
Sand	630	665	
Red Rock	665	745	
Sand	745	765	
Red Rock	765	830	
Slate	830	910	
Dunkard Sand	1055	1065	
Slate & Shells	1065	1290	
Gas Sand	1290	1405	
Slate	1405	1465	
1st Salt Sand	1465	1526	
Shale	1526	1566	
2nd Salt Sand	1566	1584	
Shale	1584	1610	
3rd Salt Sand	1610	1725	Slight Show
Slate	1725	1810	Gas 1655'
Maxon Sand	1810	1845	
Shale	1845	1920	
Little lime	1920	1942	
Pencil Cave	1942	1954	
Big Lime	1954	2064	
Big Injun Sand	2064	2118	
Slate Break	2118	2130	
Squaw Sand	2130	2138	
Slate & Shells	2138	2452	
Coffee Shale	2452	2494	
Berea Sand	2494	2501	
Slate & Shells	2501	2684	
Sand	2604	2611	
Slate & Shells	2611	2756	
Sand	2756	2768	
Slate & Shells	2768	2866	
Gordon	2866	2884	
Slate & Shells	2884	4506	
Benson Sand	4506	4524	
Slate & Shells	4524	4982	
Upper Alexander Sand	4982	5004	
Slate & Shells	5004	5065	
Lower Alexander Sand	5065	5092	
Slate & Shells	5092	5474	
Sand	5474	5488	
Slate & Shells	5488	5637	
Hamilton Shale	5637	5670	Gas Show at TD'
Slate & Shells	5670	5706	
Shale	5706	5723	
TD	5788		