

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: 6-20-12  
API #: 47-085-09959

Farm name: RJ & SL Bumgardner Operator Well No.: W-1636

LOCATION: Elevation: 946' Quadrangle: Harrisville

District: Murphy County: Ritchie  
Latitude: 4770' Feet South of 39 Deg. 10 Min. 00 Sec.  
Longitude 5740 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				
Agent: <u>Warren R. Haught</u>	<u>13-3/8"</u>	<u>39'</u>	<u>39'</u>	<u>To Surface</u>
Inspector: <u>David Cowan</u>	<u>9-5/8"</u>	<u>336'</u>	<u>336'</u>	<u>To Surface</u>
Date Permit Issued: <u>September 16, 2011</u>	<u>7"</u>	<u>1908'</u>	<u>1908'</u>	<u>To Surface</u>
Date Well Work Commenced: <u>4/03/2012</u>	<u>4-1/2"</u>	<u>5953'</u>	<u>5953'</u>	<u>2150' fill up</u>
Date Well Work Completed: <u>6/20/2012</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>5,979'</u>				
Total Measured Depth (ft): <u>5,969'</u>				
Fresh Water Depth (ft.): <u>60'</u>				
Salt Water Depth (ft.): <u>NA</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>NA</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 Elk Pay zone depth (ft) 5800' - 5940'  
Gas: Initial open flow show MCF/d Oil: Initial open flow - Bbl/d  
Final open flow 75 MCF/d Final open flow - Bbl/d  
Time of open flow between initial and final tests 12 Hours  
Static rock Pressure 500 psig (surface pressure) after 24 Hours

Second producing formation Alexander Pay zone depth (ft) 5525' - 5660'  
Gas: Initial open flow Show MCF/d Oil: Initial open flow - Bbl/d  
Final open flow 75 MCF/d Final open flow - Bbl/d  
Time of open flow between initial and final tests - Hours  
Static rock Pressure 500 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

8/6/12  
Date

08/17/2012

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 Wireline Services 4/24/2012

Perforations at: 5525'- 5660' ; 5800' - 5937'

Fractured by Universal Well Services 4/25/2012

2 Stage Frac - Stage One Foam Frac - 80 Quality - 700,000 cubic feet Nitrogen

- Stage Two - Nitrogen Gas Frac - 700,000 cubic feet Nitrogen

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

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
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See attached worksheet

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Bumgardner W-1630

API # 47-085-09959

Formation	Top	Bottom	Remarks
Red Rock & Shale	0	650	
Sand	650	960	
Red Rock	690	780	
Sand	780	810	
Red Rock	810	880	
Slate	880	955	
Dunkard Sand	955	970	
Slate & Shells	970	1220	
Gas Sand	1220	1318	
Slate	1318	1375	
1st Salt Sand	1375	1425	
Shale	1425	1470	
2nd Salt Sand	1470	1490	
Shale	1490	1525	
3rd Salt Sand	1525	1630	
Slate	1630	1710	
Maxon Sand	1710	1748	
Shale	1748	1820	
Little lime	1820	1842	
Pencil Cave	1842	1854	
Big Lime	1854	1955	
Big Injun Sand	1955	2000	
Slate Break	2000	2005	
Squaw Sand	2005	2015	
Slate & Shells	2015	2278	
Weir	2278	2296	
Slate & Shells	2296	2400	
Coffee Shale	2400	2460	
Berea Sand	2460	2485	
Slate & Shells	2485	2684	
Sand	2684	2704	
Slate & Shells	2704	2730	
Sand	2730	2738	
Gordon	2738	2748	
Slate & Shells	2748	4378	
Benson Sand	4378	4385	
Slate & Shells	4385	4866	
Alexander Sand	4866	4880	
Slate & Shells	4880	4958	
Sand	4958	4962	
Slate & Shells	4962	5510	
Hamilton Shale	5510	5544	
Slate & Shells	5544	5632	
Upper Elk	5632	5802	
Slate & Shells	5802	5885	
Lower Elk	5885	5928	
TD	5968		

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