

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

DATE: _____
API #: 039-06321

Farm name: BIRD DODD Operator Well No.: 1A
LOCATION: Elevation: 1075' Quadrangle: C10 7.5
District: Big Sandy County: Kanawha
Latitude: 38.501795 Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: 81.370043 Feet West of _____ Deg. _____ Min. _____ Sec.

Company: RAVN RIDGE ENERGY

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>3230 Pennsylvania Ave Charleston WV 25302</u>				
Agent: <u>RYAN CUNNINGHAM</u>				
Inspector: <u>TERRY GREEN</u>				
Date Permit Issued: <u>10/28/2011</u>		<u>9 5/8</u>	<u>395</u>	<u>CTS</u>
Date Well Work Commenced: <u>12/17/11</u>		<u>7"</u>	<u>1834</u>	<u>CTS</u>
Date Well Work Completed: <u>12/22/11</u>		<u>4 1/2</u>	<u>2349</u>	<u>150 sks</u>
Verbal Plugging: <u>N/A</u>				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>2368'</u>				
Total Measured Depth (ft): <u>2368'</u>				
Fresh Water Depth (ft.): <u>N/A</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.): <u>N/A</u>				
Void(s) encountered (N/Y) Depth(s) <u>N/A</u>				

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

Producing formation WEIR Pay zone depth (ft) 2220
Gas: Initial open flow 110 MCF/d Oil: Initial open flow 1 Bbl/d
Final open flow 140 MCF/d Final open flow 2 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 180 psig (surface pressure) after 36 Hours

Second producing formation SQUAW Pay zone depth (ft) 2012
Gas: Initial open flow 50 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 50 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 36 Hours
Static rock Pressure 140 psig (surface pressure) after 48 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.

[Signature]
Signature

5/15/12
Date

10/19/2012

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Gamma Ray / Neutron Density / Induction - Temperature

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:

Weir 75% Quality Foam Frac 1000 Gal 15% HCL
 4,000 lbs 20/40 SAND PERF 2194-2220 (20 HOLES)

SQUAW 75% Quality Foam Frac 500 Gal 15% HCL
 25,000 lbs 20/40 SAND PERF 2080-2012 (35 HOLES)

Total 750 BBI FOAM TREAT

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered:	Top Depth	Bottom Depth
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<u>SAND</u> : <u>SHALE</u> 0 - 315	<u>MAXTON</u> 1688 - 1796
<u>SAND</u> 315 - 340	<u>SHALE</u> 1796 - 1838
<u>SAND</u> : <u>SHALE</u> 340 - 430	<u>LITTLE LIME</u> 1838 - 1846
<u>SAND</u> 430 - 460	<u>SHALE</u> 1846 - 1854
<u>SAND</u> : <u>SHALE</u> 460 - 502	<u>BIG LIME</u> 1854 - 1886
<u>SAND</u> 502 - 625	<u>BIG INJUN</u> 1886 - 1975
<u>SAND</u> : <u>SHALE</u> 625 - 806	<u>SQUAW</u> 1975 - 2025
<u>SAND</u> 806 - 882	<u>SHALE</u> 2025 - 2192
<u>SHALE</u> 882 - 920	<u>WEIR</u> 2192 - 2222
<u>SAND</u> 920 - 955	<u>SHALE</u> 2222 - 2368
<u>SHALE</u> 955 - 1000	
<u>SAND</u> 1000 - 1028	
<u>SAND</u> : <u>SHALE</u> 1028 - 1296	
<u>SALT SAND</u> 1296 - 1637	
<u>SHALE</u> 1637 - 1688	