

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: \_\_\_\_\_  
API #: 039-06282

Farm name: BROWN - PERDUE Operator Well No.: 1

LOCATION: Elevation: 714' Quadrangle: BLUE CREEK 7.5

District: Big Sandy County: Kanawha  
Latitude: 38.489026 Feet South of \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.  
Longitude: 81.383592 Feet West of \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.

Company: Raven Ridge Energy  
Address: 3230 Pennsylvania Ave  
Charleston WV 25302

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Agent: <u>Ryan Cunningham</u>				
Inspector: <u>TERRY LUTON</u>				
Date Permit Issued: <u>4/6/2011</u>		<u>9 3/8</u>	<u>395</u>	<u>CTS</u>
Date Well Work Commenced: <u>5/31/11</u>		<u>7"</u>	<u>1461</u>	<u>CTS</u>
Date Well Work Completed: <u>6/5/11</u>		<u>4 1/2</u>	<u>1950</u>	<u>120sk</u>
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>2202</u>				
Total Measured Depth (ft): <u>2168</u>				
Fresh Water Depth (ft.): <u>60</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>				

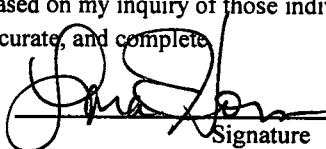
OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation WEIR Pay zone depth (ft) 1705  
Gas: Initial open flow 100 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 180 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock Pressure 210 psig (surface pressure) after 48 Hours

Second producing formation Big Inj Pay zone depth (ft) 1583  
Gas: Initial open flow 150 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 250 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 36 Hours  
Static rock Pressure 100 psig (surface pressure) after 48 Hours

RECEIVED  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
WV DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

5/14/12  
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 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:

WEIR 1705 - 1834 (20 Holes) 500 BBI FOAM  
TREATMENT 75% QUANTITY W 500 GAL HCl 15% ACID  
25000 LBS 20/40 SAND

Big Injun 1583 - 1558 (20 Holes) 500 BBI  
75% QUANTITY FOAM TREATMENT W 500 GAL 15% HCl  
ACID 25000 LBS 20/40 SAND

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

Formations Encountered: \_\_\_\_\_ Top Depth \_\_\_\_\_ Bottom Depth \_\_\_\_\_  
Surface: \_\_\_\_\_

<u>SAND &amp; SHALE 0 - 275</u>	<u>WEIR 1705 - 1835</u>
<u>SAND 275 - 390</u>	<u>SHALE 1835 - 2009</u>
<u>SAND &amp; SHALE 390 - 560</u>	<u>COFFE SHALE 2009 - 2019</u>
<u>SAND 560 - 740</u>	<u>SHALE 2019 - 2202</u>
<u>SAND &amp; SHALE 740 - 815</u>	
<u>SALT SANDS 815 - 1232</u>	
<u>SHALE 1232 - 1292</u>	
<u>MAXTON 1292 - 1330</u>	
<u>SHALE 1330 - 1448</u>	
<u>LITTLE LIME 1448 - 1458</u>	
<u>PENCIL CAVE 1458 - 1468</u>	
<u>LITTLE LIME 1468 - 1496</u>	
<u>Big Injun 1496 - 1576</u>	
<u>SOONAW 1576 - 1630</u>	
<u>SHALE 1630 - 1705</u>	