

Farm name: CAUENDER Operator Well No.: 1A  
LOCATION: Elevation: 749' Quadrangle: BLUE CREEK  
District: EIK County: Kanawha  
Latitude: \_\_\_\_\_ Feet South of \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.  
Longitude: \_\_\_\_\_ Feet West of \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.

Company: RAVEN RIDGE ENERGY  
UNION ENERGY

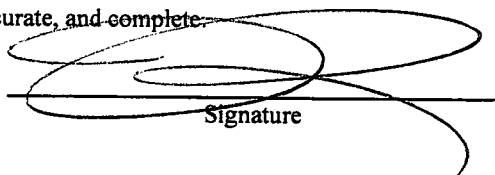
Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>320 Pennsylvania Ave</u>				
Agent: <u>Charleston WV 25302</u>				
Inspector: <u>Terry Urban</u>				
Date Permit Issued:				
Date Well Work Commenced: <u>8/22/11</u>				
Date Well Work Completed: <u>8/28/11</u>	<u>95/8</u>		<u>432</u>	<u>CTS</u>
Verbal Plugging:	<u>7"</u>		<u>1540</u>	<u>CTS</u>
Date Permission granted on:	<u>4/12</u>		<u>2048</u>	<u>950'</u>
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>2070</u>				
Total Measured Depth (ft): <u>2021</u>				
Fresh Water Depth (ft.): <u>NONE</u>				
Salt Water Depth (ft.): <u>NONE</u>				
Is coal being mined in area (N/Y)? <u>(N)</u>				
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 WE:R Pay zone depth (ft) 1790-1900  
Gas: Initial open flow 150 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 150 MCF/d Final open flow 2 Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock Pressure 280 psig (surface pressure) after 24 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ 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

9/24/12  
Date 10/19/2012

Were core samples taken? Yes \_\_\_\_\_ No

Were cuttings caught during drilling? Yes  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:

PERF FROM 1733 - 1875 40 HOLES TOTAL

FRAC WITH BAKER HUGHES APPROX 500 BBL  
75 QUALITY FOAM TREATMENT USING 35000 LBS 20/40  
SAND AND 500 GAL 15% HYDROCHLORIC ACID

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

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

SALT SAND                      1250                      1280

MAXON                      1300                      1340

LITTLE LIME                      1380                      1430

BIG LIME                      1530                      1570

SAND                      1610                      1660

WEIR                      1790                      1900

Environmental  
10/19/2012