

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

DATE: _____
API #: 039-06304

Farm name: Cromwell Operator Well No.: 2A
LOCATION: Elevation: 802' Quadrangle: Ohio 7.5
District: Big Sandy County: Kanawha
Latitude: 38.504464 Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: -81.359815 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 GERSON</u> | | | | |
| Date Permit Issued: <u>08/16/2011</u> | | <u>9 5/8</u> | <u>375</u> | <u>CTS</u> |
| Date Well Work Commenced: <u>12/3/11</u> | | <u>7"</u> | <u>1571</u> | <u>CTS</u> |
| Date Well Work Completed: <u>12/18/11</u> | | <u>4 1/2</u> | <u>2086</u> | <u>150sk</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>2161</u> | | | | |
| Total Measured Depth (ft): <u>2160</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 SQUAW Pay zone depth (ft) 1710
Gas: Initial open flow 250 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 275 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 50 psig (surface pressure) after 36 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]
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

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 1710 - 1750 (40 Holes) 75% Quality Foam
FRAC WITH 500 gal HCL 15% @ 35000 lbs
20/40 SAND (TOTAL 750 BBL Foam
Treatment

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

Formations Encountered: _____ Top Depth _____ Bottom Depth
Surface: _____

| | |
|-------------------------|-----------------------|
| SAND ! SHALE 0 - 210 | Big Lime 1580 - 1612 |
| SAND 210 - 325 | Big Injun 1612 - 1703 |
| SAND ! SHALE 325 - 525 | SQUAN 1703 - 1755 |
| SAND 525 - 608 | SHALE 1755 - 1940 |
| SHALE 608 - 655 | WEIR 1940 - 2088 |
| SAND 655 - 682 | SHALE 2088 - 2160 |
| SAND ! SHALE 682 - 820 | |
| SAND 820 - 875 | |
| SAND ! SHALE 875 - 956 | |
| SALT SAND 956 - 1370 | |
| SHALE 1370 - 1412 | |
| MAXTON 1412 - 1534 | |
| SHALE 1534 - 1552 | |
| LITTLE LIME 1552 - 1563 | |
| PENCIL CAVE 1563 - 1580 | |