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: | 7-26-12 |
|-------|--------------|
| API#: | 47-009-00084 |

| Farm name: Barry Greathouse A 5H LOCATION: Elevation: 1150' | | Operator Well No.: 832968 Quadrangle: Tiltonsville WV | | | | |
|--|--------------------------------------|--|--------------------|------------------|--------------|------------------------|
| | | | | | | |
| Latitude: 2970' | Feet South of 40 | Deg. | 12 Min. | 30 Sec | | |
| Longitude 6140' | Longitude 6140' Feet West of 80 Deg. | | | | . . | |
| Company: Chesar | peake Appalachia, L.L.C. | | | | | |
| Address: P.O. B | ox 18496 | | Casing & Tubing | Used in drilling | Left in well | Cement fill up Cu. Ft. |
| Oklahoma City, OK | 73154-0496 | | 20" | 90' | 90' | Driven |
| Agent: Eric Gille | spie | | 13 3/8" | 368' | 368' | 434 Cu. Ft. |
| Inspector: Bill H | endershot | | 9 5/8" | 1716' | 1716' | 783 Cu. Ft. |
| Date Permit Issued | Date Permit Issued: 1/11/2011 | | | 12733' | 12733' | 3370 Cu. Ft. |
| Date Well Work Co | ommenced: 5/26/2011 | | | | | |
| Date Well Work Co | ompleted: 9/23/2011 | | | | | |
| Verbal Plugging: | | | | | | |
| Date Permission gr | anted on: | | | | | |
| Rotary 🗸 Ca | ble Rig | | | | | |
| Total Vertical De | epth (ft): 5,790' | | | | | |
| Total Measured D | epth (ft): 12,733' | | | | | |
| Fresh Water Dept | | | | | | |
| Salt Water Depth | | | | | | |
| Is coal being mined | | | | | | |
| Coal Depths (ft.): | 270' | | | | | |

| OPEN FLOW DATA (If more the Producing formation Marcellum | han two producing formations pless Pay zone d | ease include addition epth (ft) 6,515'-12,597' | nal data on separate sheet) |
|---|---|--|--|
| Gas: Initial open flow 0 | MCF/d Oil: Initial open flow 0 | Bbl/d | |
| | MCF/d Final open flow 100 | Bbl/d | and the state of t |
| Time of open flow between | en initial and final tests 34 | Hours | WO ON OHE . |
| Static rock Pressure 3,736 | psig (surface pressure) after | Hours | |
| Second producing formation | Pay zone dep | oth (ft) | JUL 3 1 2012 |
| Gas: Initial open flow | MCF/d Oil: Initial open flow | Bbl/d | Alleman. |
| Final open flow | _MCF/d Final open flow | Bbl/d | A Department |
| Time of open flow between | en initial and final tests | Hours | Edionmental Project |
| 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.

Marley William
Signature

Void(s) encountered (N/Y) Depth(s) N

7-38-3017

08/17/2012

| Were core samples taken? YesNo_N | ere core samples taken? YesNo Were cuttings caught during drilling? Yes_YNo | | | | |
|---|--|--|--|--|--|
| Were Electrical, Mechanical or Geophysical logs recorded LWD GR from 5001-12677' MD | on this well? If yes, please list | | | | |
| FRACTURING OR STIMULATING, PHYSICAL CI | DLLOWING: 1). DETAILS OF PERFORATED INTERVALS, HANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING OM SURFACE TO TOTAL DEPTH. | | | | |
| Perforated Intervals, Fracturing, or Stimulating: | JUL 3 I 2012 | | | | |
| (See Attached) | | | | | |
| | | | | | |
| | | | | | |
| Plug Back Details Including Plug Type and Depth(s): | | | | | |
| Formations Encountered: To Surface: | op Depth / Bottom Depth | | | | |
| (See Attached) | | | | | |
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PERFORATION RECORD ATTACHMENT

Well Name and Number: Barry Greathouse A 5H (832968)

| PERFO | RATION RE | CORD | STIMULATION RECORD | | | | | | | |
|---------------------|-----------|--------|--------------------|----------|---------|---------|----------------|------|---------|-----------|
| Interval Perforated | | | | | Fluid | | Propping Agent | | Average | |
| Date | From | То | Date | Interval | Treated | Туре | Amount | Туре | Amount | Injection |
| 9/11/2011 | 12,215 | 12,597 | 9/11/2011 | 12,215 | 12,597 | Slk Wtr | 14,519 | Sand | 572,958 | 87.0 |
| 9/12/2011 | 11,740 | 12,122 | 9/12/2011 | 11,740 | 12,122 | Slk Wtr | 10,143 | Sand | 574,144 | 89.0 |
| 9/13/2011 | 11,265 | 11,647 | 9/13/2011 | 11,265 | 11,647 | Slk Wtr | 14,522 | Sand | 574,781 | 87.0 |
| 9/14/2011 | 10,790 | 11,172 | 9/14/2011 | 10,790 | 11,172 | Slk Wtr | 9,615 | Sand | 573,504 | 88.0 |
| 9/15/2011 | 10,315 | 10,697 | 9/15/2011 | 10,315 | 10,697 | Slk Wtr | 9,756 | Sand | 570,504 | 82.0 |
| 9/15/2011 | 9,840 | | 9/15/2011 | 9,840 | 10,222 | Slk Wtr | 11,446 | Sand | 574,385 | 84.0 |
| 9/17/2011 | 9,365 | 9,747 | 9/17/2011 | 9,365 | 9,747 | Slk Wtr | 10,274 | Sand | 571,653 | 86.0 |
| 9/17/2011 | 8,890 | 9,272 | 9/17/2011 | 8,890 | 9,272 | Slk Wtr | 9,750 | Sand | 574,385 | 87.0 |
| 9/18/2011 | 8,415 | 8,797 | 9/18/2011 | 8,415 | 8,797 | Slk Wtr | 12,216 | Sand | 571,530 | 74.0 |
| 9/19/2011 | 7,940 | 8,322 | 9/19/2011 | 7,940 | 8,322 | Slk Wtr | 9,707 | Sand | 571,840 | 85.0 |
| 9/20/2011 | 7,463 | 7,847 | 9/20/2011 | 7,463 | 7,847 | Slk Wtr | 9,442 | Sand | 572,804 | 86.0 |
| 9/21/2011 | 6,990 | 7,372 | 9/21/2011 | 6,990 | 7,372 | Slk Wtr | 12,095 | Sand | 318,929 | 86.0 |
| 9/23/2011 | 6,515 | 6,899 | 9/23/2011 | 6,515 | 6,899 | Slk Wtr | 9,763 | Sand | 597,155 | 86.0 |
| | | | | | | | | | | |
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Horizontal Wellbore (no vertical pilot hole associated with this well)

Maximum TVD of wellbore:

5818 ft TVD @ 6443 ft MD

| Formation/Lithology | Top Depth, MD (ft) | Top Depth, TVD (ft) | Bottom Depth, MD (ft) | Bottom Depth, TVD (ft) |
|---------------------|-----------------------|------------------------|--------------------------|---------------------------|
| LS/SHALE | 0 | 0 | 270 | 270 |
| PITTSBURGH COAL | 270 | 270 | 280 | 280 |
| SHALE | 280 | 280 | 450 | 450 |
| SS/SHALE | 450 | 450 | 1260 | 1260 |
| BIG LIME (LS) | 1260 | 1260 | 1395 | 1395 |
| BIG INJUN (SS) | 1395 | 1395 | 1550 | 1550 |
| SHALE/SS | 1550 | 1550 | 4850 | 4850 |
| SHALE | 4850 | 4850 | 6012 | 5638 |
| GENESEO (SH) | 6012 | 5638 | 6034 | 5654 |
| TULLY (LS) | 6034 | 5654 | 6055 | 5670 |
| HAMILTON (SH) | 6055 | 5670 | 6284 | 5790 |
| MARCELLUS (SH) | 6284 | 5790 | | |
| END OF WELL | | | 12733 | 5747 |

JUL 3 1 2012