

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: March 8, 2012  
API #: 47-103-02625

Farm name: West Virginia Division of Natural Resources Operator Well No.: WVDNR 1102

LOCATION: Elevation: 805' Quadrangle: Center Point

District: Grant County: Wetzel  
Latitude: 39.504472 Feet South of 39 Deg. 30 Min. 13.90 Sec.  
Longitude: -80.6356 Feet West of 80 Deg. 38 Min. 14.90 Sec.

Company: Triad Hunter, LLC

| Address:   | Casing & Tubing | Used in drilling | Left in well | Cement fill up Cu. Ft. |
|--|-----------------|------------------|--------------|------------------------|
| P.O. Box 430<br>Reno, Ohio 45773   |                 |                  |              |                        |
| Agent: <u>Kimberly Arnold</u>  | 20"             | 44'              | 44'          |                        |
| Inspector: <u>David Scranage</u>   | 13 3/8"         | 793.8'           | 793.8'       | 719.8 cu. ft.          |
| Date Permit Issued: <u>01/20/2011</u>  | 9 5/8"          | 3140.55'         | 3140.55'     | 1174.1 cu. ft.         |
| Date Well Work Commenced: <u>03/04/2011</u>  | 5 1/2"          | 13182.26'        | 13182.26'    | 3293.28 cu. ft.        |
| Date Well Work Completed: <u>09/16/2011</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>6914'</u>  |                 |                  |              |                        |
| Total Measured Depth (ft): <u>12517'</u>   |                 |                  |              |                        |
| Fresh Water Depth (ft.):   |                 |                  |              |                        |
| Salt Water Depth (ft.):  |                 |                  |              |                        |
| Is coal being mined in area (N/Y)? <u>No</u>   |                 |                  |              |                        |
| Coal Depths (ft.): <u>225'-340', 380'-394', 590'-598'</u>  |                 |                  |              |                        |
| Void(s) encountered (N/Y) Depth(s) <u>None</u>   |                 |                  |              |                        |

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

Producing formation Marcellus Shale Pay zone depth (ft) 6820'  
Gas: Initial open flow 3.8 M MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 4.93 M MCF/d Final open flow 59 Bbl/d  
Time of open flow between initial and final tests 117 Hours  
Static rock Pressure 2879 psig (surface pressure) after 117 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

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WV GEOLOGICAL SURVEY  
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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

3-8-12  
Date



**WVDNR 1102**

**Perf Spacing for 16 stages**

Stage Length: 310  
 Num Clusters: 4 to 5  
 Dist between Perfs: 41'-77'  
 Perf length: 3'  
 Stages: 16  
 Start Depth: 12460  
 90 @: 7597'

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 MORGANTOWN, WV

|          |    | Plug Depth | Interval 1    | Interval2     | Interval 3    | Interval 4    | Interval 5    | FT           | PSI                   | PSI          | BPM      | BPM      | bbls      | lbs        |
|----------|----|------------|---------------|---------------|---------------|---------------|---------------|--------------|-----------------------|--------------|----------|----------|-----------|------------|
| Stage    |    |            |               |               |               |               |               | Stage Length | Avg Treating Pressure | Max Pressure | Avg Rate | Max Rate | Fluid Vol | Total Sand |
| Stage 1  | 1  | 12460      | 12426'-12423' | 12377'-12374' | 12314'-12311' | 12251'-12248' | 12188'-12185' | 316          | 7463                  | 7731         | 78.6     | 84.5     | 10152     | 431400     |
| Stage 2  | 2  | 12144      | 12112'-12109' | 12035'-12032' | 11958'-11955' | 11881'-11878' |               | 304          | 7643                  | 8635         | 81.3     | 83.3     | 10162     | 427000     |
| Stage 3  | 3  | 11840      | 11802'-11799' | 11725'-11722' | 11648'-11645' | 11571'-11568' |               | 310          | 7616                  | 8113         | 80.1     | 84.1     | 10087     | 427000     |
| Stage 4  | 4  | 11530      | 11492'-11489' | 11415'-11412' | 11338'-11335' | 11261'-11258' |               | 310          | 7552                  | 8040         | 83.8     | 85.2     | 10024     | 427000     |
| Stage 5  | 5  | 11220      | 11182'-11179' | 11105'-11102' | 11028'-11025' | 10951'-10948' |               | 310          | 7466                  | 8159         | 79.5     | 84       | 40432     | 427000     |
| Stage 6  | 6  | 10910      | 10872'-10869' | 10795'-10792' | 10718'-10715' | 10641'-10638' |               | 310          | 7403                  | 7623         | 83.9     | 84.7     | 9960      | 427200     |
| Stage 7  | 7  | 10600      | 10562'-10559' | 10485'-10482' | 10408'-10405' | 10331'-10328' |               | 310          | 7403                  | 7785         | 82.2     | 85.2     | 9684      | 426800     |
| Stage 8  | 8  | 10290      | 10252'-10249' | 10175'-10172' | 10098'-10095' | 10021'-10018' |               | 305          | 7760                  | 8611         | 81.3     | 84       | 11242     | 426500     |
| Stage 9  | 9  | 9985       | 9942'-9939'   | 9865'-9862'   | 9788'-9785'   | 9711'-9708'   |               | 315          | 7519                  | 7909         | 82.4     | 83.2     | 9934      | 427200     |
| Stage 10 | 10 | 9670       | 9632'-9626'   | 9555'-9552'   | 9478'-9475'   | 9401'-9398'   |               | 302          | 7303                  | 7579         | 83.3     | 84.4     | 10069     | 427100     |
| Stage 11 | 11 | 9368       | 9322'-9319'   | 9245'-9242'   | 9168'-9165'   | 9091'-9088'   |               | 318          | 7180                  | 7469         | 85.3     | 86.3     | 9970      | 427000     |
| Stage 12 | 12 | 9050       | 9012'-9009'   | 8935'-8932'   | 8858'-8855'   | 8778'-8781'   |               | 310          | 7110                  | 7481         | 84.2     | 86.3     | 10121     | 427000     |
| Stage 13 | 13 | 8740       | 8702'-8699'   | 8625'-8622'   | 8548'-8545'   | 8471'-8468'   |               | 400          | 7281                  | 7591         | 84.1     | 87.1     | 9899      | 427400     |
| Stage 14 | 14 | 8340       | 8392'-8389'   | 8315'-8312'   | 8238'-8235'   | 8261'-8158'   |               | 220          | 7415                  | 7900         | 83.2     | 86       | 10057     | 427100     |
| Stage 15 | 15 | 8120       | 8082'-8079'   | 8005'-8002'   | 7928'-7925'   | 7851'-7848'   |               | 310          | 7203                  | 7608         | 83.9     | 84.7     | 9997      | 427000     |
| Stage 16 | 16 | 7810       | 7772'-7769'   | 7695'-7692'   | 7618'-7615'   | 7541'-7538'   |               | 310          | 7231                  | 6969         | 83.6     | 85.3     | 9827      | 427000     |