

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: April 11, 2013  
API #: 47-051-01492 - Revised

Farm name: Hendrickson - South Operator Well No.: 5H

LOCATION: Elevation: 1228' Quadrangle: Wileyville 7.5'

District: Franklin County: Marshall  
Latitude: 1825 Feet South of 39 Deg. 45 Min. 00 Sec.  
Longitude 11195 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: Gastar Exploration USA, Inc.

| Address:                                                                                    | Casing & Tubing | Used in drilling | Left in well | Cement fill up Cu. Ft. |
|---------------------------------------------------------------------------------------------|-----------------|------------------|--------------|------------------------|
| 229 West Main Street, Suite 301<br>Clarksburg, WV 26301                                     | 20"             |                  | 40'          | CTS                    |
| Agent: <u>Michael McCown</u>                                                                | 13-3/8"         |                  | 1058'        | 958                    |
| Inspector: <u>Bill Hendershot</u>                                                           | 9-5/8"          |                  | 2534'        | 920                    |
| Date Permit Issued: <u>7/13/2011</u>                                                        | 5-1/2"          |                  | 12384'       | 3310                   |
| Date Well Work Commenced: <u>10/5/2011</u>                                                  | 2-3/8"          |                  | 5961'        |                        |
| Date Well Work Completed: <u>3/31/2012</u>                                                  |                 |                  |              |                        |
| Verbal Plugging:                                                                            |                 |                  |              |                        |
| Date Permission granted on:                                                                 |                 |                  |              |                        |
| Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/> |                 |                  |              |                        |
| Total Vertical Depth (ft): <u>6,672'</u>                                                    |                 |                  |              |                        |
| Total Measured Depth (ft): <u>12,410'</u>                                                   |                 |                  |              |                        |
| Fresh Water Depth (ft.): <u>60'</u>                                                         |                 |                  |              |                        |
| Salt Water Depth (ft.): <u>1600'</u>                                                        |                 |                  |              |                        |
| Is coal being mined in area (N/Y)? <u>N</u>                                                 |                 |                  |              |                        |
| Coal Depths (ft.): <u>832-852; 987-997</u>                                                  |                 |                  |              |                        |
| Void(s) encountered (N/Y) Depth(s) <u>N</u>                                                 |                 |                  |              |                        |

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

Producing formation Marcellus Pay zone depth (ft) 6677'  
Gas: Initial open flow 3312 MCF/d Oil: Initial open flow 135 Bbl/d  
Final open flow 3508 MCF/d Final open flow 151 Bbl/d  
Time of open flow between initial and final tests 240 Hours  
Static rock Pressure 1612 psig (surface pressure) after 240 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

4-11-13  
Date

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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 Log

**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:

See attached sheet:

Plug Back Details Including Plug Type and Depth(s): n/a

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

|                   |             |           |             |
|-------------------|-------------|-----------|-------------|
| Sewickley Coal    | 832 - 852   | Geneseo   | 6443 - 6573 |
| Pittsburgh Coal   | 987 - 997   | Tully     | 6573 - 6510 |
| Maxton            | 2029 - 2069 | Hamilton  | 6510 - 6641 |
| Big Lime          | 2060 - 2090 | Marcellus | 6641 - 6672 |
| Big Injun         | 2100        |           |             |
| Base of Big Injun | 2290        |           |             |
| Weir              | 2420 - 2590 |           |             |
| Berea             | 2599 - 2823 |           |             |
| Gordon            | 2826 - 2857 |           |             |
| Benson            | 3535 - 3545 |           |             |
| Java              | 5126 - 5445 |           |             |
| Rhinestreet       | 5900 - 6240 |           |             |
| Cashaqua          | 6240 - 6363 |           |             |
| Middlesex         | 6363 - 6386 |           |             |
| West River        | 6386 - 6443 |           |             |

51-01492

Fluid & Sand Volume Summary - Hendrickson #5H

| Date      | Stage | Perforated Interval |          | Fluid Type | Frac Fluid | Pump Down | 100 mesh | 40/70 M | Total Sand | Avg Inj |
|-----------|-------|---------------------|----------|------------|------------|-----------|----------|---------|------------|---------|
|           |       | From<br>ft          | To<br>ft |            |            |           |          |         |            |         |
| 1/17/2012 | 1     | 12060               | 12270    | slk wtr    | 5128       | 0         | 46108    | 157082  | 203190     | 81      |
| 1/17/2012 | 2     | 11760               | 11970    | slk wtr    | 8252       | 758       | 90369    | 288759  | 379128     | 82      |
| 1/18/2012 | 3     | 11460               | 11670    | slk wtr    | 8549       | 786       | 89101    | 305598  | 394699     | 83      |
| 1/18/2012 | 4     | 11160               | 11370    | slk wtr    | 8148       | 419       | 90573    | 304450  | 395023     | 82      |
| 1/19/2012 | 5     | 10860               | 11070    | slk wtr    | 8315       | 327       | 89397    | 302502  | 391899     | 82      |
| 1/19/2012 | 6     | 10560               | 10770    | slk wtr    | 8429       | 293       | 88697    | 303389  | 392086     | 82      |
| 1/20/2012 | 7     | 10260               | 10470    | slk wtr    | 8416       | 276       | 87734    | 309056  | 396790     | 83      |
| 1/20/2012 | 8     | 9960                | 10170    | slk wtr    | 8279       | 230       | 91213    | 302068  | 393281     | 83      |
| 1/21/2012 | 9     | 9660                | 9870     | slk wtr    | 8271       | 224       | 89257    | 303590  | 392847     | 83      |
| 1/21/2012 | 10    | 9360                | 9570     | slk wtr    | 3523       | 256       | 520      | 0       | 520        | 83      |
| 1/22/2012 | 11    | 9060                | 9270     | slk wtr    | 8467       | 162       | 89985    | 304269  | 394254     | 82      |
| 1/22/2012 | 12    | 8760                | 8970     | slk wtr    | 8318       | 182       | 90242    | 303251  | 393493     | 83      |
| 1/23/2012 | 13    | 8460                | 8670     | slk wtr    | 8236       | 162       | 90480    | 304123  | 394603     | 83      |
| 2/16/2012 | 14    | 8160                | 8370     | slk wtr    | 8157       | 130       | 89090    | 305384  | 394474     | 81      |
| 2/16/2012 | 15    | 7860                | 8070     | slk wtr    | 8085       | 118       | 90384    | 302247  | 392631     | 80      |
| 2/17/2012 | 16    | 7560                | 7770     | slk wtr    | 8183       | 91        | 89898    | 304625  | 394523     | 83      |
| 2/17/2012 | 17    | 7345                | 7475     | slk wtr    | 8130       | 91        | 90958    | 292516  | 383474     | 83      |

**Totals**

132886      4505      1394006      4692909      6086915

Water to Recover

137391 bbls