

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

DATE: 1-31-2012
API #: 47-069-00072

18

Farm name: Shawn Couch 1H Operator Well No.: 832978

LOCATION: Elevation: 1265' Quadrangle: Bethany WV

District: Liberty County: Ohio
Latitude: 1480' Feet South of 40 Deg. 10 Min. 00 Sec.
Longitude 6840 Feet West of 80 Deg. 35 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

| Address: | Casing & Tubing | Used in drilling | Left in well | Cement fill up Cu. Ft. |
|--|-----------------|------------------|--------------|------------------------|
| P.O. Box 18496 Oklahoma City, OK 73154-0496 | 13 3/8" | 389' | 389' | 324 cf |
| Agent: Eric Gillespie | 9 5/8" | 1993' | 1993' | 952 cf |
| Inspector: Bill Hendershot | 5 1/2" | 9975' | 9975' | 4760 cf |
| Date Permit Issued: 1/25/2011 | | | | |
| Date Well Work Commenced: 3/23/2011 | | | | |
| Date Well Work Completed: 9/19/2011 | | | | |
| Verbal Plugging: | | | | |
| Date Permission granted on: | | | | |
| Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/> | | | | |
| Total Vertical Depth (ft): 6121'(PBD 9,880') | | | | |
| Total Measured Depth (ft): 9975' | | | | |
| Fresh Water Depth (ft.): 300' | | | | |
| Salt Water Depth (ft.): 1000' | | | | |
| Is coal being mined in area (N/Y)? N | | | | |
| Coal Depths (ft.): 700" | | | | |
| Void(s) encountered (N/Y) Depth(s) N | | | | |

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

Producing formation Marcellus Pay zone depth (ft) 6,708'-9,830'
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 3,979 psig (surface pressure) after --- 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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Environmental Protection

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.

Maureen Williams
Signature

5/9/2012
Date

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 GR, neutron, density, and resistivity open hole logs from 0'-6,398' MD; LWD GR from 5,550'-9,975'

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)

Plug Back Details Including Plug Type and Depth(s): PBDT @ 9,880'

| <u>Formations Encountered:</u> | <u>Top Depth</u> | <u>/</u> | <u>Bottom Depth</u> |
|--------------------------------|------------------|----------|---------------------|
|--------------------------------|------------------|----------|---------------------|

Surface:

PERFORATION RECORD ATTACHMENT

Well Name and Number: Shawn Couch 1H (832978)

| PERFORATION RECORD | | | STIMULATION RECORD | | | | | | | |
|--------------------|---------------------|-------|--------------------|------------------|--------|---------|--------|----------------|---------|-------------------|
| Date | Interval Perforated | | Date | Interval Treated | | Fluid | | Propping Agent | | Average Injection |
| | From | To | | Type | Amount | Type | Amount | | | |
| 9/16/2011 | 9,508 | 9,830 | 9/16/2011 | 9,508 | 9,830 | Slk Wtr | 7,883 | Sand | 504,660 | 85.0 |
| 9/17/2011 | 9,086 | 9,430 | 9/17/2011 | 9,086 | 9,430 | Slk Wtr | 13,042 | Sand | 480,661 | 78.0 |
| 9/17/2011 | 8,708 | 9,030 | 9/17/2011 | 8,708 | 9,030 | Slk Wtr | 8,517 | Sand | 482,600 | 85.0 |
| 9/17/2011 | 8,308 | 8,630 | 9/17/2011 | 8,308 | 8,630 | Slk Wtr | 8,129 | Sand | 476,900 | 85.0 |
| 9/17/2011 | 7,908 | 8,230 | 9/17/2011 | 7,908 | 8,230 | Slk Wtr | 8,496 | Sand | 485,920 | 85.0 |
| 9/18/2011 | 7,508 | 7,830 | 9/18/2011 | 7,508 | 7,830 | Slk Wtr | 8,101 | Sand | 483,540 | 84.0 |
| 9/18/2011 | 7,108 | 7,430 | 9/18/2011 | 7,108 | 7,430 | Slk Wtr | 8,596 | Sand | 483,740 | 85.0 |
| 9/18/2011 | 6,708 | 7,030 | 9/18/2011 | 6,708 | 7,030 | Slk Wtr | 19,543 | Sand | 478,493 | 67.0 |
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| <u>Shawn Couch 1H</u> | MD | |
|---------------------------|-----------------------|--------------------------|
| <u>Lithology</u> | <u>Top Depth (ft)</u> | <u>Bottom Depth (ft)</u> |
| SANDSTONE | 0 | 150 |
| SHALE/SANDSTONE | 150 | 350 |
| LIMESTONE/SHALE/SANDSTONE | 350 | 490 |
| SANDSTONE | 490 | 550 |
| SHALE/SANDSTONE | 550 | 600 |
| SANDSTONE | 600 | 700 |
| LIMESTONE/SHALE/SANDSTONE | 700 | 800 |
| SHALE | 800 | 930 |
| LIMESTONE/SHALE | 930 | 1000 |
| SHALE | 1000 | 1050 |
| SANDSTONE | 1050 | 1370 |
| SHALE/SANDSTONE | 1370 | 1525 |
| BIG INJUN | 1525 | 1818 |
| SHALE | 1818 | 3050 |
| SHALE/SANDSTONE | 3050 | 3100 |
| SANDSTONE/SHALE | 3100 | 3150 |
| SHALE/SANDSTONE | 3150 | 3390 |
| SHALE | 3390 | 4300 |
| SHALE/SANDSTONE | 4300 | 4350 |
| SHALE | 4350 | 6020 |
| SHALE/LIMESTONE | 6020 | 6080 |
| SHALE | 6080 | 6120 |
| SHALE/LIMESTONE | 6120 | 6155 |
| GENESEO | 6155 | 6183 |
| TULLY | 6183 | 6243 |
| HAMILTON | 6243 | 6426 |
| MARCELLUS | 6426 | 9975 |