

WR-35
Rev (9-11)

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

DATE: 3-20-2013
API #: 47-009-00144

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Farm name: Russell Hervey BRK 5H Operator Well No.: 835018

LOCATION: Elevation: 1,160' Quadrangle: Stuebenville East

MAR 25 2013

District: Buffalo County: Brooke
Latitude: 4,260' Feet South of 40 Deg. 17 Min. 30 Sec.
Longitude 12,250' Feet West of 80 Deg. 32 Min. 30 Sec.

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

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 | 20" | 138' | 138' | 244 Cu. Ft. |
| Agent: <u>Eric Gillespie</u> | 13 3/8" | 358' | 358' | 505 Cu. Ft. |
| Inspector: <u>Gayne J. Knitowski</u> | 9 5/8" | 1,701' | 1,701' | 836 Cu. Ft. |
| Date Permit Issued: <u>8-25-2012</u> | 5 1/2" | 11,638' | 11,638' | 1,077 Cu. Ft. |
| Date Well Work Commenced: <u>12-9-2012</u> | | | | |
| Date Well Work Completed: <u>12-22-2012(Rig release date)</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>5,869'</u> | | | | |
| Total Measured Depth (ft): <u>11,638'</u> | | | | |
| Fresh Water Depth (ft.): <u>277'</u> | | | | |
| Salt Water Depth (ft.): <u>1100'</u> | | | | |
| Is coal being mined in area (N/Y)? <u>N</u> | | | | |
| Coal Depths (ft.): <u>245'</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) (n/a-not frac'd)

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow N/A* MCF/d Final open flow _____ Bbl/d *TIL: 6-10-2013
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ 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

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.

Marlene Williams
Signature

3-22-2013
Date

Were core samples taken? Yes _____ No N

Were cuttings caught during drilling? Yes Y No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, neutron, density, and resistivity
Open hole logs run from 0-1713' MD; LWD GR from 5232-11638' MD.

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:

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Scheduled fracturing date 3-27-2013

MAR 25 2013

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

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

See attachment

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WV GEOLOGICAL SURVEY
MORGANTOWN, WV

LATERAL WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 5869 ft TVD @ 6377 ft MD

| Formation/Lithology | Top Depth, MD (ft) | Top Depth, TVD (ft) | Bottom Depth, MD (ft) | Bottom Depth, TVD (ft) |
|---------------------|-----------------------|------------------------|--------------------------|---------------------------|
| LS/SILT | 0 | 0 | 272 | 272 |
| PITTSBURG COAL | 272 | 272 | 282 | 282 |
| LS/SHALE/SILT | 282 | 282 | 380 | 380 |
| SS | 380 | 380 | 440 | 440 |
| SHALE | 440 | 440 | 590 | 590 |
| LS/SILT/SHALE | 590 | 590 | 856 | 856 |
| KITTANNING COAL | 856 | 856 | 862 | 862 |
| SS/SILT | 862 | 862 | 1267 | 1267 |
| BIG LIME | 1267 | 1267 | 1315 | 1315 |
| BIG INJUN (SS) | 1315 | 1315 | 1612 | 1612 |
| SHALE | 1612 | 1612 | 5731 | 5667 |
| GENESEO (SH) | 5731 | 5667 | 5751 | 5680 |
| TULLY (LS) | 5751 | 5680 | 5763 | 5688 |
| HAMILTON (SH) | 5763 | 5688 | 6116 | 5837 |
| MARCELLUS (SH) | 6116 | 5837 | | |
| TD OF LATERAL | | | 11638 | 5826 |