

WR-35
Rev (8-10)

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

DATE: 5-12-2011
API #: 47-9101168

Farm name: Armstrong, Robert L & Julia Operator Well No.: Armstrong 1HM

LOCATION: Elevation: 1,326' Quadrangle: Grafton

District: Courthouse County: Taylor
Latitude: 39 Feet South of 20 Deg. 00 Min. Sec.
Longitude 80 Feet West of 05 Deg. 11 Min. Sec.

Company:

| Address: | Casing & Tubing | Used in drilling | Left in well | Cement fill up Cu. Ft. |
|---|-----------------|------------------|--------------|------------------------|
| PDC Mountaineer, LLC 120 Genesis Blvd. Bridgeport, WV 26330 | 20" | 58' | 58' | |
| Agent: Bob Williamson | 13 3/8" | 460' | 460' | 362 sxs |
| Inspector: Bryan Harris | 9 5/8" | 2,718 | 2,718' | 640 sxs |
| Date Permit Issued: 11/25/2009 | 5 1/2" | 11,457' | 11,457' | 1,143 sxs |
| Date Well Work Commenced: 3/10/2010 | | | | |
| Date Well Work Completed: 6/10/2010 | | | | |
| Verbal Plugging: | | | | |
| Date Permission granted on: | | | | |
| Rotary X Cable Rig | | | | |
| Total Vertical Depth (ft): | | | | |
| Total Measured Depth (ft): | | | | |
| Fresh Water Depth (ft.): 35', 200', 340' | | | | |
| Salt Water Depth (ft.): Grantz @2020' | | | | |
| Is coal being mined in area (N/Y)? No | | | | |
| Coal Depths (ft.): 400', 1030' | | | | |
| Void(s) encountered (N/Y) Depth(s) | | | | |

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

Producing formation Marcellus Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 2,200 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 700 psig (surface pressure) after 24 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

5-12-2011
Date

Armstrong #1HBA
 47-091-01189
 GL: 1326'
 KB: 1344'
 Depths are taken from KE

| FORMATION | WELL LOG | | | REMARKS: FRESH & SALT WATER, COAL, OIL & GAS |
|-----------------|----------------|-----------------|-----------------|--|
| | MD TOP FEET | MD BASE FEET | TVD TOP FEET | |
| | | 0 | | |
| sand, shale, RR | 0 | 1540 | 0 | Damp @ 30' |
| Little Lime | 1540 | 1556 | 1540 | 1" H2o @ 250' |
| sand, shale | 1556 | 1580 | 1556 | 2" Saltwater @ 2040' |
| Big Lime | 1580 | 1760 | 1580 | |
| sand, shale | 1760 | 1866 | 1760 | |
| Weir | 1866 | 1892 | 1866 | |
| sand, shale | 1892 | 2022 | 1892 | |
| Gantz | 2022 | 2044 | 2022 | |
| sand, shale | 2044 | 2086 | 2044 | |
| 50 ft | 2086 | 2153 | 2086 | |
| sand, shale | 2153 | 2176 | 2153 | |
| 30 ft | 2176 | 2200 | 2176 | |
| sand, shale | 2200 | 2302 | 2200 | |
| Gordon | 2302 | 2320 | 2302 | |
| sand, shale | 2320 | 2540 | 2320 | |
| 4th | 2540 | 2596 | 2540 | |
| sand, shale | 2596 | 2612 | 2596 | |
| 5th | 2612 | 2650 | 2612 | |
| sand, shale | 2650 | 2870 | 2650 | |
| Bayard | 2870 | 2893 | 2870 | |
| sand, shale | 2893 | 2946 | 2893 | |
| Speechley | 2946 | 3110 | 2946 | |
| sand, shale | 3110 | 3182 | 3110 | |
| Salitown | 3182 | 3446 | 3182 | |
| sand, shale | 3446 | 3532 | 3446 | |
| Bradford | 3532 | 3920 | 3532 | |
| sand, shale | 3920 | 4114 | 3920 | |
| Riley | 4114 | 4262 | 4114 | |
| sand, shale | 4262 | 4516 | 4262 | |
| Benson | 4516 | 4598 | 4516 | |
| sand, shale | 4598 | 4774 | 4598 | |
| 1st Elk | 4774 | 4818 | 4774 | Mudloggers on well at 6450' to TD. |
| sand, shale | 4818 | 6638 | 4818 | TD vertical @7150' / KOP @ 7184' |
| Sycamore | 6650 | 6684 | 6650 | 36-50 unit show in Sycamore |
| sand, shale | 6684 | 5742 | 6684 | 104 unit show at 7130' |
| Genesee | 7464 | 7487 | 7449 | |
| Tully | 7487 | 7558 | 7470 | 4702 unit show in Genesee at 7449 TVD |
| sand, shale | 7558 | 7692 | 7470 | Gas shows in Marcellus lateral from 10 to 5,000 units. |
| Marcellus | 7728 | 11,483 | 7657 | |

Drillers TD