

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: 5/26/2016
API #: 4706900117

Farm name: Rayle Coal OHI 6H Operator Well No.: 834682

LOCATION: Elevation: 1064' Quadrangle: Tiltonsville

District: Richland County: Ohio
Latitude: 570' Feet South of 40 Deg. 10 Min. 00 Sec.
Longitude 1944' Feet West of 80 Deg. 37 Min. 30 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 | 20" | 100' | 100' | 376 Cu. Ft. |
| Agent: Eric Gillespie | 13 3/8" | 296' | 296' | 319 Cu. Ft. |
| Inspector: Bill Hendershot | 9 5/8" | 1690' | 1690' | 757 Cu. Ft. |
| Date Permit Issued: 5-29-2012 | 5 1/2" | 10579' | 10579' | 2750 Cu. Ft. |
| Date Well Work Commenced: 9-6-2012 | | | | |
| Date Well Work Completed: 6-16-2013 | | | | |
| Verbal Plugging: | | | | |
| Date Permission granted on: | | | | |
| Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/> | | | | |
| Total Vertical Depth (ft): 5838' | | | | |
| Total Measured Depth (ft): 10579' | | | | |
| Fresh Water Depth (ft.): 30', 250', 306' | | | | |
| Salt Water Depth (ft.): 1110' | | | | |
| Is coal being mined in area (N/Y)? N | | | | |
| Coal Depths (ft.): 243' | | | | |
| Void(s) encountered (N/Y) Depth(s) Y 237' | | | | |

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

Producing formation Marcellus Pay zone depth (ft) 6,093-10,448

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow 3,187* MCF/d Final open flow 488 Bbl/d

Time of open flow between initial and final tests 72 Hours

Static rock Pressure 3,795* psig (surface pressure) after 72 Hours *Calculated

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

APPROVED

NAME: Eric Bleed

DATE: 9-23-16

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

6/14/2016
Date

10/28/2016

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes _____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list LWD GR from 5,267'-10,580' 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:

See attached

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

| Formations Encountered: | Top Depth | / | Bottom Depth |
|-------------------------|-----------|---|--------------|
| Surface: | | | |

See attached

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PERFORATION RECORD ATTACHMENT

Well Name and Number: Rayle Coal OHI 6H

API No. 47-069-00117

| Stage | PERFORATION RECORD | | | | | STIMULATION RECORD | | | | | | |
|-------|--------------------|---------------------|-------|-----------------------|-----------|--------------------|--------|---------|--------|----------------|--------|------------------------|
| | Date | Interval Perforated | | Total Number Of Shots | Date | Interval Treated | | Fluid | | Propping Agent | | Average Injection Rate |
| | | From | To | | | Type | Amount | Type | Amount | Type | Amount | |
| | | | | | | | | | | | | |
| 1 | 5/13/2013 | 10,145 | 10448 | 42 | 5/13/2013 | 10,145 | 10448 | SLK Wtr | 11003 | Sand | 627700 | 81 |
| 2 | 5/13/2013 | 9,923 | 10120 | 42 | 5/13/2013 | 9,923 | 10120 | SLK Wtr | 8185 | Sand | 479200 | 80 |
| 3 | 5/14/2013 | 9,667 | 9864 | 42 | 5/14/2013 | 9,667 | 9864 | SLK Wtr | 8095 | Sand | 465467 | 80 |
| 4 | 5/14/2013 | 9,412 | 9609 | 42 | 5/14/2013 | 9,412 | 9609 | SLK Wtr | 8174 | Sand | 455969 | 80 |
| 5 | 5/14/2013 | 9,157 | 9354 | 42 | 5/14/2013 | 9,157 | 9354 | SLK Wtr | 8077 | Sand | 457733 | 81 |
| 6 | 5/14/2013 | 8,902 | 9098 | 42 | 5/14/2013 | 8,902 | 9098 | SLK Wtr | 8019 | Sand | 453517 | 81 |
| 7 | 5/14/2013 | 8,646 | 8843 | 42 | 5/14/2013 | 8,646 | 8843 | SLK Wtr | 8115 | Sand | 457875 | 81 |
| 8 | 5/15/2013 | 8,391 | 8588 | 42 | 5/15/2013 | 8,391 | 8588 | SLK Wtr | 8168 | Sand | 455910 | 79 |
| 9 | 5/15/2013 | 8,136 | 8332 | 42 | 5/15/2013 | 8,136 | 8332 | SLK Wtr | 8023 | Sand | 454435 | 81 |
| 10 | 5/15/2013 | 7,880 | 8077 | 42 | 5/15/2013 | 7,880 | 8077 | SLK Wtr | 7953 | Sand | 459166 | 81 |
| 11 | 5/16/2013 | 7,625 | 7822 | 42 | 5/16/2013 | 7,625 | 7822 | SLK Wtr | 7978 | Sand | 456222 | 81 |
| 12 | 5/16/2013 | 7,370 | 7566 | 42 | 5/16/2013 | 7,370 | 7566 | SLK Wtr | 8028 | Sand | 453011 | 80 |
| 13 | 5/16/2013 | 7,114 | 7311 | 42 | 5/16/2013 | 7,114 | 7311 | SLK Wtr | 7915 | Sand | 455163 | 81 |
| 14 | 5/16/2013 | 6,859 | 7056 | 42 | 5/16/2013 | 6,859 | 7056 | SLK Wtr | 7873 | Sand | 454616 | 83 |
| 15 | 5/17/2013 | 6,600 | 6801 | 42 | 5/17/2013 | 6,600 | 6801 | SLK Wtr | 7743 | Sand | 455322 | 83 |
| 16 | 5/17/2013 | 6,349 | 6545 | 42 | 5/17/2013 | 6,349 | 6545 | SLK Wtr | 7931 | Sand | 456736 | 80 |
| 17 | 5/17/2013 | 6,093 | 6290 | 42 | 5/17/2013 | 6,093 | 6290 | SLK Wtr | 7685 | Sand | 465628 | 81 |

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

Maximum TVD of wellbore: 5,838 ft TVD @ 10,426 ft MD

| Formation/Lithology | Top Depth, MD (ft) | Top Depth, TVD (ft) | Bottom Depth, MD (ft) | Bottom Depth, TVD (ft) |
|---------------------|-----------------------|------------------------|--------------------------|---------------------------|
| SH/LS | 0 | 0 | 214 | 214 |
| SH/LS/COAL | 214 | 214 | 237 | 237 |
| COAL (VOID) | 237 | 237 | 243 | 243 |
| SH/LS/COAL | 243 | 243 | 270 | 270 |
| SHALE | 270 | 270 | 360 | 360 |
| SS | 360 | 360 | 420 | 420 |
| SH | 420 | 420 | 660 | 660 |
| SILTSTONE | 660 | 660 | 690 | 690 |
| SH | 690 | 690 | 720 | 720 |
| SH/SS | 720 | 720 | 750 | 750 |
| SS trc SH/LS | 750 | 750 | 780 | 780 |
| SS | 780 | 780 | 840 | 840 |
| SH/SS | 840 | 840 | 870 | 870 |
| SH | 870 | 870 | 900 | 900 |
| COAL | 900 | 900 | 930 | 930 |
| SH | 930 | 930 | 1050 | 1050 |
| SH/SS | 1050 | 1050 | 1080 | 1080 |
| SH trc SS/LS | 1080 | 1080 | 1140 | 1140 |
| SS | 1140 | 1140 | 1170 | 1170 |
| SH | 1170 | 1170 | 1230 | 1230 |
| LS | 1230 | 1230 | 1254 | 1254 |
| BIG LIME | 1254 | 1254 | 1280 | 1280 |
| SS trc SH/LS | 1280 | 1280 | 1329 | 1329 |
| BIG INJUN | 1329 | 1329 | 1539 | 1539 |
| SHALE | 1539 | 1539 | 1630 | 1630 |
| SHALE trc SILT/LS | 1630 | 1630 | 3550 | 3550 |
| SHALE | 3550 | 3550 | 5590 | 5590 |
| SHALE trc LS | 5590 | 5590 | 5799 | 5611 |
| GENESEO | 5799 | 5611 | 5823 | 5628 |
| TULLY | 5823 | 5628 | 5905 | 5682 |
| HAMILTON | 5905 | 5682 | 6085 | 5770 |
| MARCELLUS | 6085 | 5770 | | |
| TD OF LATERAL | | | 10579 | 5837 |

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