

JK

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: 11/4/2013
API: 47-051-01363

Farm Name: Riggle, Patrick Shane _____ Operator Well No: SHL-3E-HS

LOCATION: Sand Hill Elevation: 1,289.18' Quadrangle: Majorsville

District: SAND HILL County: MARSHALL
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec. 39.97114300
Longitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec. -80.55694900

| Company: CNX Gas Company LLC | Casing & Tubing | Used in Drilling | Left in Well | Cement fill up Cu. Ft. |
|---|-----------------|------------------|--------------|---|
| Address: 200 Evergreene Drive Waynesburg, PA 15370 | 20 | 48 | 48 | Grouted In |
| Agent: Ryan Morgan | 13 3/8 | 995 | 995 | 587 sxs to surface |
| Inspector: Bill Hendershot | 9 5/8 | 3129 | 3129 | Cemented to surface 1034 sxs - 37 bbls return |
| Date Permit Issued: 11/1/2010 | 5 1/2 | 12496.4 | 12496.4 | 2145 sxs (497 bbls) Class A |
| Date Well Work Commenced: 6/11/2011 | | | | |
| Date Well Work Completed: 6/24/2012 | | | | |
| Verbal Plugging: | | | | |
| Date Permission granted on: 6/11/2011 | | | | |
| Rotary Cable Rig X | | | | |
| Total Vertical Depth (ft): Original Hole - 6589.87' | | | | |
| Total Measured Depth (ft): 12,511' | | | | |
| Fresh Water Depth (ft): N/A | | | | |
| Salt Water Depth (ft): N/A | | | | |
| Is coal being mined in the area (N/Y)? Y | | | | |
| Coal Depths (ft.): 660'-665' | | | | |
| Void(s) encountered (N/Y) Depth(s) N/A | | | | |

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

Producing formation Marcellus Pay zone depth (ft) 6612'
Gas: Initial open flow 5821 MCF/d Oil: Initial open flow 26 Bbl/d
Final open flow 0 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 2700 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.

Shirley A. Adkins 1-27-14
Signature Date

Shirley A. Adkins, Noble Energy Inc. 1/21/14 04/04/2014

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Were core samples taken? Yes__ No_x__

Were cuttings caught during drilling? Yes_x_ No__

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list: MWD Gamma Ray _____

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: Please See Attached

Plug Back Details including Plug Type and Depth(s): Please See Attached

Surface: _____

Formations Encountered: Please See Attached

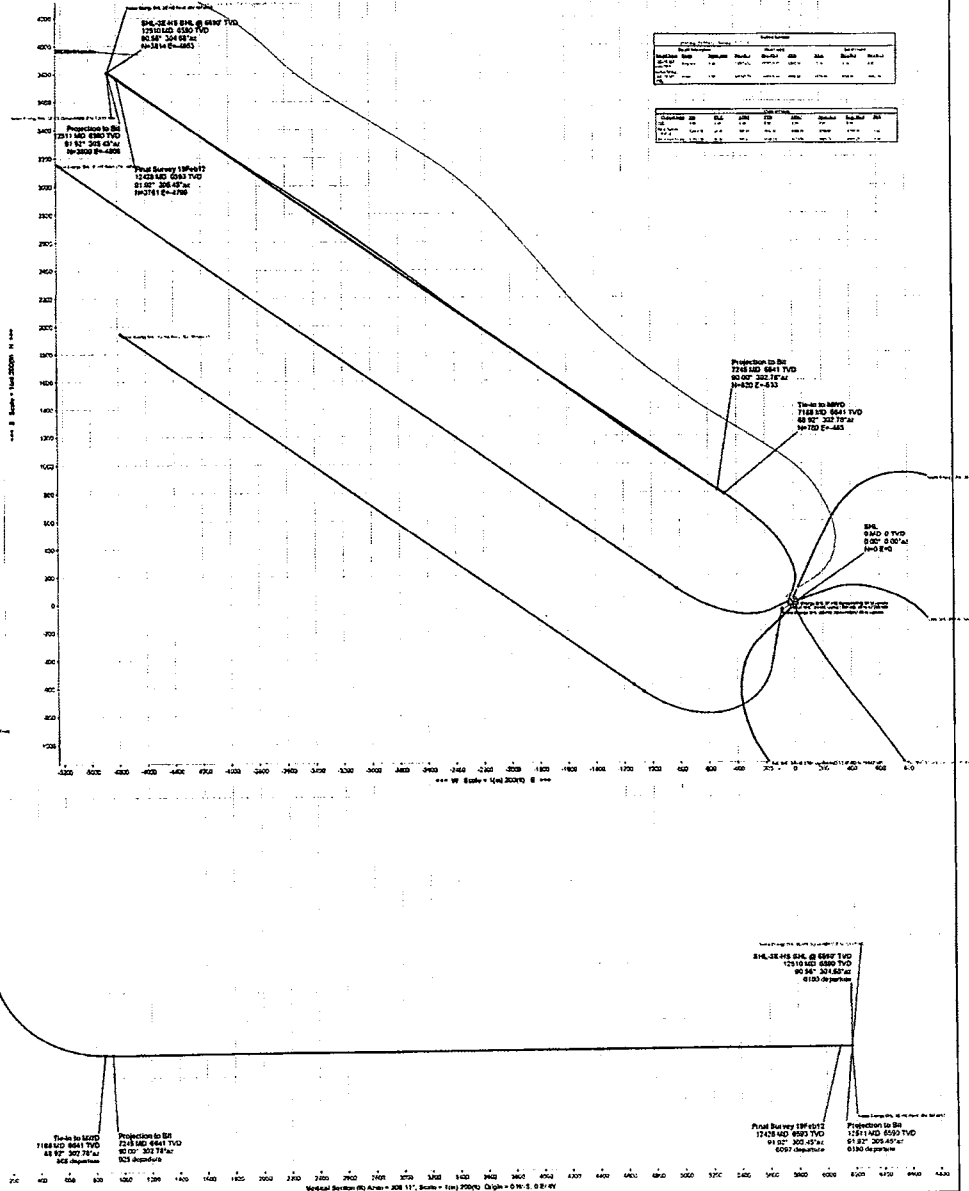
04/04/2014



Noble Energy



| | | | | | |
|-----------|-----------|------------|-----------------------------|----------|------------|
| WELL | SHL-3E-HS | FIELD | WV Marshall County (NAD 83) | LOCATION | Nabors MSF |
| Well Name | SHL-3E-HS | Field Name | WV Marshall County (NAD 83) | Location | Nabors MSF |



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| Stage # | Plug Type | Plug Depth |
|---------|---------------------|------------|
| 1 | No Plug | No Plug |
| 2 | Composite Frac Plug | 12,173 |
| 3 | Composite Frac Plug | 11,873 |
| 4 | Composite Frac Plug | 11,573 |
| 5 | Composite Frac Plug | 11,273 |
| 6 | Composite Frac Plug | 10,973 |
| 7 | Composite Frac Plug | 10,673 |
| 8 | Composite Frac Plug | 10,373 |
| 9 | Composite Frac Plug | 10,073 |
| 10 | Composite Frac Plug | 9,773 |
| 11 | Composite Frac Plug | 9,473 |
| 12 | Composite Frac Plug | 9,173 |
| 13 | Composite Frac Plug | 8,873 |
| 14 | Composite Frac Plug | 8,573 |
| 15 | Composite Frac Plug | 8,273 |
| 16 | Composite Frac Plug | 7,973 |
| 17 | Composite Frac Plug | 7,673 |
| 18 | Composite Frac Plug | 7,373 |
| 19 | Composite Frac Plug | 7,073 |

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Stimulation Summary

| Date | Stage # | Formation | Frac Type | Top Perf | Bottom Perf | # of Perfs | BD Press (psi) | ATP (psi) | Avg Rate (bpm) | ISIP (psi) | Frac Gradient | Sand (lbs) | Acid (gals) | Water (gals) |
|-----------|---------|-----------|------------|----------|-------------|------------|----------------|-----------|----------------|------------|---------------|------------|-------------|--------------|
| 6/11/2012 | 1 | Marcellus | Slickwater | 12,197 | 12,379 | 45 | 4,970 | 7,523 | 67.3 | 4,282 | 1.08 | 342,395 | 2,000 | 310,842 |
| 6/16/2012 | 2 | Marcellus | Slickwater | 11,897 | 12,149 | 40 | 5,490 | 7,970 | 75.2 | 4,330 | 1.09 | 346,907 | 2,000 | 347,340 |
| 6/16/2012 | 3 | Marcellus | Slickwater | 11,597 | 11,849 | 40 | 5,408 | 7,861 | 82.0 | 4,167 | 1.06 | 355,963 | 2,000 | 340,452 |
| 6/16/2012 | 4 | Marcellus | Slickwater | 11,297 | 11,549 | 40 | 5,397 | 7,684 | 82.2 | 4,322 | 1.09 | 350,097 | 2,000 | 336,378 |
| 6/16/2012 | 5 | Marcellus | Slickwater | 10,997 | 11,249 | 40 | 5,269 | 7,696 | 70.0 | 4,500 | 1.11 | 350,034 | 2,000 | 359,142 |
| 6/17/2012 | 6 | Marcellus | Slickwater | 10,697 | 10,949 | 40 | 5,331 | 8,159 | 64.3 | 4,224 | 1.08 | 338,039 | 2,000 | 321,006 |
| 6/17/2012 | 7 | Marcellus | Slickwater | 10,397 | 10,649 | 40 | 5,369 | 7,883 | 70.2 | 4,110 | 1.06 | 360,198 | 2,000 | 329,112 |
| 6/17/2012 | 8 | Marcellus | Slickwater | 10,097 | 10,349 | 40 | 5,561 | 7,420 | 76.2 | 4,046 | 1.04 | 350,603 | 2,000 | 337,554 |
| 6/18/2012 | 9 | Marcellus | Slickwater | 9,797 | 10,049 | 40 | 5,520 | 7,162 | 74.1 | 4,200 | 1.07 | 345,063 | 2,000 | 317,814 |
| 6/20/2012 | 10 | Marcellus | Slickwater | 9,497 | 9,749 | 40 | 5,053 | 7,617 | 80.8 | 3,614 | 0.98 | 350,725 | 2,000 | 327,180 |
| 6/20/2012 | 11 | Marcellus | Slickwater | 9,197 | 9,449 | 40 | 5,529 | 7,347 | 83.2 | 3,892 | 1.02 | 350,777 | 2,000 | 327,012 |
| 6/21/2012 | 12 | Marcellus | Slickwater | 8,897 | 9,149 | 40 | 5,438 | 7,517 | 74.0 | 4,190 | 1.07 | 353,745 | 2,000 | 324,282 |
| 6/21/2012 | 13 | Marcellus | Slickwater | 8,597 | 8,849 | 40 | 5,652 | 7,300 | 86.8 | 4,026 | 1.04 | 350,794 | 2,000 | 331,296 |
| 6/22/2012 | 14 | Marcellus | Slickwater | 8,297 | 8,549 | 40 | 6,014 | 7,345 | 85.5 | 4,041 | 1.04 | 350,936 | 2,000 | 330,120 |
| 6/22/2012 | 15 | Marcellus | Slickwater | 7,997 | 8,249 | 40 | 6,577 | 7,244 | 78.7 | 4,173 | 1.06 | 345,967 | 2,000 | 338,394 |
| 6/23/2012 | 16 | Marcellus | Slickwater | 7,697 | 7,949 | 40 | 7,082 | 7,130 | 83.8 | 4,282 | 1.08 | 350,953 | 2,000 | 326,760 |
| 6/23/2012 | 17 | Marcellus | Slickwater | 7,397 | 7,649 | 40 | 5,389 | 7,246 | 73.8 | 3,823 | 1.01 | 351,110 | 2,000 | 324,534 |
| 6/24/2012 | 18 | Marcellus | Slickwater | 7,097 | 7,349 | 40 | 5,840 | 7,536 | 75.3 | 4,049 | 1.04 | 351,089 | 2,000 | 322,308 |
| 6/24/2012 | 19 | Marcellus | Slickwater | 6,897 | 7,049 | 36 | 6,763 | 7,184 | 85.6 | 4,189 | 1.07 | 360,014 | 2,000 | 326,802 |

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| Formations | Top TVD | Base TVD | Top MD | Base MD | Fluid |
|---------------------|---------|-----------------|-----------------|-----------------|-------|
| Shale | 0 | 660 | 0 | 660 | |
| Pittsburgh Coal | 660 | 665 | 660 | 665 | |
| Shale and Sandstone | 665 | 1222 | 665 | 1222 | |
| Dunkard Sand | 1222 | 1233 | 1222 | 1233 | |
| Shale | 1233 | 1404 | 1233 | 1404 | |
| Gas Sand | 1404 | 1443 | 1404 | 2397 | |
| Shale | 1443 | 1535 | 1443 | 2594 | |
| 1st Salt Sand | 1535 | 1559 | 1535 | 2596 | |
| Shale | 1559 | 1568 | 1559 | 2649 | |
| 2nd Salt Sand | 1568 | 1613 | 1568 | 2658 | |
| Shale | 1613 | 1696 | 1613 | 2700 | |
| Maxton Sand | 1696 | 1708 | 1696 | 2715 | |
| Shale | 1708 | 1751 | 1708 | 2751 | |
| Big Lime | 1751 | 1831 | 1751 | 2764 | |
| Big Injun | 1831 | 2025 | 1831 | 2860 | |
| Price | 2025 | 2383 | 2025 | 3300 | |
| Murrysville | 2383 | 2397 | 2383 | 3328 | |
| Shale | 2397 | 2594 | 2397 | 4337 | |
| 50' Sand | 2594 | 2596 | 2594 | 2596 | |
| Shale | 2596 | 2649 | 2596 | 2649 | |
| 30' Sand | 2649 | 2658 | 2649 | 2658 | |
| Shale | 2658 | 2700 | 2658 | 2700 | |
| Gordon Stray | 2700 | 2715 | 2700 | 2715 | |
| Shale | 2715 | 2751 | 2715 | 2751 | |
| Gordon | 2751 | 2764 | 2751 | 2764 | |
| Shale | 2764 | 2860 | 2764 | 2860 | |
| Fifth Sand | 2860 | 2894 | 2860 | 2894 | |
| Shale | 2894 | 3300 | 2894 | 3300 | |
| Speechley Sand | 3300 | 3328 | 3300 | 3328 | |
| Shale | 3328 | 4336 | 3328 | 4337 | |
| Warren Sand | 4336 | 4345 | 4337 | 4346 | |
| Shale | 4345 | 5003 | 4346 | 5004 | |
| Java Shale | 5003 | 5174 | 5004 | 5175 | |
| Pipe Creek Shale | 5174 | 5231 | 5175 | 5232 | |
| Angola Shale | 5231 | 5856 | 5232 | 5859 | |
| Rhinestreet | 5856 | 6272 | 5859 | 6330 | |
| Cashaqua | 6272 | 6363 | 6330 | 6450 | |
| Middlesex | 6363 | 6398 | 6450 | 6499 | |
| West River | 6398 | 6450 | 6499 | 6578 | |
| Burkett | 6450 | 6473 | 6578 | 6616 | |
| Tully Limestone | 6473 | 6503 | 6616 | 6670 | |
| Hamilton | 6503 | 6614 | 6670 | 6957 | |
| Marcellus | 6614 | 6664 | 6957 | not encountered | Gas |
| Onondaga | 6664 | not encountered | not encountered | not encountered | |

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Table with columns: Comments, MD (ft), Inc1 (°), Azim Grid (°), TVD (ft), TVD9S (ft), VSEC (ft), NS (ft), EW (ft), DLS (ft/100ft), Northing (ft), Easting (ft), Latitude (N/S ° ' "), Longitude (E/W ° ' ").

Survey Type: Non-Dof Survey

Survey Error Model: ISCWSA Rev 0 3-D 95.000% Confidence 2.7956 sigma

Table with columns: Description, MD From (ft), MD To (ft), ECU Freq (ft), Survey Tool Type, Borehole / Survey. Rows include descriptions like 'Original Borehole / Noble Energy SHL-3E-HS Gyros+MWD Dft to Update'.

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