WR-35 Rev. 8/23/13

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

| District Clay  |   |
|--|---|
| Field/Pool Name  |   |
| Well Number 3H   |   |
|  |   |
| State WV   | Zip 25301   |
| and deviation survey Easting 569973.9 asting 569985.5 asting 568664.5  |   |
| Type of Report    I  | nterim □Final   |
| Depth Type □   | Deep   Shallow  |
| drilling   Rework  | Stimulate   |
| Solution Mining   Storag   | ge 🗆 Other  |
|  |   |
| is D NOL DOIL D  | Other   |
| AL PLUS, HRP, LIME, M-I WATE<br>SAWET, VG-PLUS, VINSEAL MEDIL  | <u> </u>  |
| 15 Date drilling cea   | sed2/7/2016   |
| activities ceased1/  |   |
| Granted by   |   |
| of verbal permission to plug  Offic  Offic | RECEIVED TO STEP STEP STEP STEP STEP STEP STEP STEP   |
|  | Field/Pool Name  Well Number 3H  State WV  and deviation survey Casting 569973.9 asting 569985.5 asting 568664.5  Type of Report II  Depth Type |

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|-----------------------|--------------------------------|--|------------------------|----------------|--------------------------------|------------------------------|--------------------------|-----------------|------------------------|
| API 47- 061           | 01722                          |  | Fllen F                | Campbell       |                                | ***                          | . , 3H                   |                 |                        |
| API 47-               |                                | Farm name Ellen F. Campbell Well number 3H |                        |                |                                |                              |                          |                 |                        |
| CASING<br>STRINGS     | Hole<br>Size                   | Casing<br>Size                             | Depth                  | New or<br>Used | Grade<br>wt/ft                 |                              | Basket<br>Depth(s)       | Did cement circ |                        |
| Conductor             | 30                             | 24   | 50'                    | N              |                                | N/A                          | N/A                      | Y to s          | urface                 |
| Surface               | 17.5                           | 13 3/8                                     | 1,267'                 | N              |                                | 54.5                         | N/A                      | Y 12 bb         | bl return              |
| Coal                  |                                |  |                        | •              |                                |                              |                          |                 |                        |
| Intermediate 1        | 12.25                          | 9 5/8                                      | 2,434'                 | N              |                                | 40                           | N/A                      | Y 13 bb         | ol return              |
| Intermediate 2        |                                |  |                        |                |                                |                              |                          |                 |                        |
| Intermediate 3        |                                |  |                        |                |                                |                              |                          |                 |                        |
| Production            | 8.5                            | 5.5  | 16,399'                | N              |                                | 20                           | N/A                      | Estimated       | top 2000'              |
| Tubing                | N/A                            | 2-3/8                                      | 8,372'                 | N              |                                | 4.7                          | N/A                      | N/              | /A                     |
| Packer type and de    | epth set                       | 1/A  |                        |                |                                |                              |                          |                 |                        |
| Comment Details       |                                |  |                        |                |                                |                              |                          |                 |                        |
| CEMENT<br>DATA        | Class/Type<br>of Cement        | Numbe<br>of Sack                           |                        |                | Yield<br>ft <sup>3</sup> /sks) | Volume<br>(ft <sup>3</sup> ) | Top (N                   | MD)             | WOC<br>(hrs)           |
| Conductor             | 4,500 psi ready r              | mix 36.4                                   |                        |                | .75                            | 27.27                        | CT:                      |                 | 48                     |
| Surface               | Class A                        | 1,054                                      | 15                     | .2             | 1.27                           | 1,271                        | CT:                      | 3               | 8                      |
| Coal                  |                                |  |                        |                |                                |                              |                          |                 |                        |
| Intermediate 1        | Class A                        | 889  | 15                     | .2             | 1.26                           | 1,074                        | CT:                      | 3               | 8                      |
| Intermediate 2        |                                |  |                        |                |                                |                              |                          |                 | <del></del>            |
| Intermediate 3        |                                |  |                        |                |                                |                              |                          |                 |                        |
| Production            | 50/50 Premium NE-1.3% R-3.3% N | 1PA 170 3,160                              | 14                     | .5             | 1.17                           | 2,661                        | СТ                       | S               | 48                     |
| Tubing                |                                |  |                        |                |                                |                              |                          |                 |                        |
| Drillers TD (ft       | 16,418'                        |  |                        | Loggers        | TD (ft) 16                     | 3,393'                       |                          |                 |                        |
| •                     | tion penetrated                | Marcellus                                  |                        | _              | k to (ft) N                    |                              |                          |                 |                        |
| Plug back pro         |                                |  |                        |                |                                |                              |                          |                 |                        |
|                       |                                |  |                        |                |                                |                              |                          |                 |                        |
| Kick off depth        | (ft) 6,604'                    |  |                        |                |                                |                              |                          |                 |                        |
| Check all wire        | line logs run                  | □ caliper<br>□ neutron                     | □ density □ resistivit |                | ated/direct<br>ma ray          |                              | induction<br>temperature | □sonic          | - 46                   |

| WAS WELL COMPLETED AS SHOT HOLI | E ∎Yes □ No  | DETAILS     | Office of Oil and Gas |
|---------------------------------|--------------|-------------|-----------------------|
| WAS WELL COMPLETED OPEN HOLE?   | □ Yes        | DETAILS     | APR <b>0 3</b> 2017   |
| WERE TRACERS USED □ Yes ■ No    | TYPE OF TRAC | CER(S) USED | WV Department of      |
|                                 |              |             |                       |

Sidewall

Well cored □ Yes ■ No

Surface: bow spring centralizers every 3rd joint or aprox 120' Intermediate: bow spring centralizers every 3rd joint or aprox 120'

Conventional

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_

Production: Hard bodied spiral centralizers every other joint or aprox 80' from TD to KOP then bow spring from KOP to 9 5/8" every forth joint or aprox 140'

Were cuttings collected ■ Yes □ No

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API 47- 061 - 01722

Farm name\_Ellen F. Campbell

\_Well number\_3H

## PERFORATION RECORD

| Stage<br>No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of<br>Perforations | Formation(s) |
|--------------|------------------|------------------------|----------------------|---------------------------|--------------|
|              |                  |                        |                      |                           |              |
|              |                  |                        |                      |                           |              |
|              |                  |                        |                      |                           |              |
|              |                  |                        |                      |                           |              |
|              |                  |                        |                      |                           |              |
|              |                  |                        |                      |                           |              |
|              |                  |                        |                      |                           |              |
|              |                  |                        |                      |                           |              |
|              |                  |                        |                      |                           |              |
|              |                  |                        |                      |                           |              |
|              |                  |                        |                      |                           |              |

Please insert additional pages as applicable.

## STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

| Stage<br>No. | Stimulations<br>Date | Ave Pump<br>Rate (BPM) | Ave Treatment<br>Pressure (PSI) | Max Breakdown<br>Pressure (PSI) | ISIP (PSI) | Amount of<br>Proppant (lbs) | Amount of<br>Water (bbls) | Amount of<br>Nitrogen/other (units) |
|--------------|----------------------|------------------------|---------------------------------|---------------------------------|------------|-----------------------------|---------------------------|-------------------------------------|
|              |                      |                        |                                 |                                 |            |                             |                           |                                     |
|              |                      |                        |                                 |                                 |            |                             |                           | ,                                   |
|              |                      |                        |                                 |                                 |            |                             |                           |                                     |
|              |                      |                        |                                 |                                 |            |                             |                           |                                     |
|              |                      |                        |                                 |                                 |            |                             |                           |                                     |
|              |                      |                        |                                 |                                 |            |                             |                           |                                     |
|              |                      |                        |                                 |                                 |            |                             |                           |                                     |
|              |                      |                        |                                 |                                 |            |                             |                           |                                     |
|              |                      |                        |                                 |                                 |            |                             |                           |                                     |
|              |                      |                        |                                 |                                 |            |                             |                           |                                     |
|              |                      |                        |                                 |                                 |            |                             |                           |                                     |
|              |                      |                        |                                 |                                 |            |                             | MEU                       | EIVEN                               |
|              |                      |                        |                                 |                                 |            | - 0                         | TICO MEG                  | MEINEI A                            |
|              |                      |                        |                                 |                                 |            |                             | Office of                 | Oil and Gas                         |
|              |                      |                        |                                 |                                 |            |                             | Office of APR 0           | 3 2017                              |
|              |                      |                        |                                 |                                 | ****       | B                           | APR                       | <b>0 3</b> 2017                     |

Please insert additional pages as applicable.

Environmental Protection

| PRODUCING FORMATION(S)  Mercellus  8111.77  TVD 16.418'  MD  Please insert additional pages as applicable.  GAS TEST   | API 47- 061 - 01722 Far |                |           |             | <sub>n name</sub> Ellen F. Campbell |           |             |            |                      | Well     | Well number 3H |           |         |  |  |
|--|-------------------------|----------------|-----------|-------------|-------------------------------------|-----------|-------------|------------|----------------------|----------|----------------|-----------|---------|--|--|
| GAS TEST   |                         |                |           | _TVD        | 16,                                 | .418'     | MD          |            |                      |          |                |           |         |  |  |
| GAS TEST   |                         |                |           |             |                                     |           |             |            |                      |          |                |           |         |  |  |
| SHUT-IN PRESSURE   Surface   3945   psi   Bottom Hole   psi   DURATION OF TEST   48   hrs  | Please insert ac        | lditional pa   | ages as a | applicable. |                                     |           |             |            |                      |          |                |           |         |  |  |
| OPEN FLOW    Sas   | GAS TEST                | □ Build u      | р 🗆 🗅     | Drawdown    | Open Flo                            | w         |             | OII        | TEST 🗆 I             | Flow (   | ⊐ Pump         | )         |         |  |  |
| 5160 mcfpd   bpd   bpd   bpd   bpd   Destimated   Orifice   Pilot  | SHUT-IN PRE             | SSURE          | Surfac    | e 3945      | psi Bo                              | otto      | m Hole      |            | psi                  | DURA'    | TION           | OF TES    | T 48    | _ hrs                                  |  |
| FORMATION DEPTH IN FT NAME TVD TVD MD MD TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H, S, FTE NAME TVD TVD MD MD TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H, S, FTE NEW)   | OPEN FLOW               |                | mcfpd     |             |                                     |           |             |            |                      |          |                |           |         | ilot                                   |  |
| Please insert additional pages as applicable.  Drilling Contractor Nabors Address CO Rd 7 City Jane Lew State WV Zip 26378  Logging Company KLX Energy Services Address 6072 W. Veterans Memorial Highway City Bridgeport State WV Zip 26330  Cementing Company Schlumberger Address 1080 US 33 City Weston State WV Zip 26452  Stimulating Company Baker Hughes Address 837 Phillippi Pike City Clarksburg State WV Zip 26301 Oil and ( |                         | DEPTH I        | N FT I    | DEPTH IN FT | DEPTH IN I                          | FT        | DEPTH IN    |            |                      |          |                |           |         |  |  |
| Drilling Contractor Nabors  Address CO Rd 7 City Jane Lew State WV Zip 26378  Logging Company KLX Energy Services  Address 6072 W. Veterans Memorial Highway City Bridgeport State WV Zip 26330  Cementing Company Schlumberger  Address 1080 US 33 City Weston State WV Zip 26452  Stimulating Company Baker Hughes  Address 837 Philippi Pike City Clarksburg State WV Zip 26301 Oil and (   |                         | 0              |           |             | 0                                   |           |             |            |                      |          | Please S       | See Attac | hment   |  |  |
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| Address 6072 W. Veterans Memorial Highway  City Bridgeport  State WV Zip 26330  Cementing Company Schlumberger  Address 1080 US 33  City Weston  State WV Zip 26452  RECEIVED Address 837 Philippi Pike  City Clarksburg  State WV Zip 26452   | Address CO Rd           | 7              |           |             | Ci                                  | ity       | Jane Lew    |            |                      | State    | WV             | Zip       | 26378   |  |  |
| Cementing Company Schlumberger  Address 1080 US 33 City Weston State WV Zip 26452  Stimulating Company Address 837 Philippi Pike City Clarksburg State WV Zip 26301 Oil and (  | Logging Comp            | any KLX E      | nergy S   | ervices     |                                     |           |             |            |                      |          |                |           | 2222    |  |  |
| Address 1080 US 33 City Weston State WV Zip 26452  Stimulating Company Address 837 Philippi Pike City Clarksburg State WV Zip 26301 Oil and (  | Address 60/2 W          | v. Veterans N  | viemorial | Highway     | Ci                                  | ity       | Bridgeport  |            |                      | State    | VVV            | Zip       | 26330   |  |  |
| Stimulating Company Address 837 Philippi Pike  Baker Hughes  City Clarksburg  State WV Zip 26301 Oil and (   |                         |                | lumberg   | jer         |                                     |           | 387 7       |            |                      |          | 14/1/          |           | 00450   |  |  |
| Stimulating Company Address 837 Philippi Pike  City Clarksburg  State WV Zip 26301 Oil and (   | Address_1000 0          | C <sub>1</sub> | ıty       | vveston     |                                     |           | State       | VVV        | Zıp                  | 20432    | FR Parino      |           |         |  |  |
| Address State VV Zip 2000 On City Clarksburg   |                         |                | aker Hu   | ghes        |                                     |           | Clarkabura  |            |                      | <b>a</b> | ١٨/١/          | Offic     | Sent Oi | VED                                    |  |
|  |                         |                | iges as a | applicable. | C:                                  | ity       | Clarksburg  | }          |                      | State    | V V V          | Zıp       |         |  |  |
| APR <b>0 3</b> 2017  |                         |                |           | 1 F         |                                     |           |             |            |                      | 204 200  | 0050           |           | APR 03  | 2017                                   |  |
| Completed by Zack Arnold Telephone 304-203-8059  Signature Title General Manager - Operations Date Through   |                         | Zack Arno      | лu        |             | Title                               | G         | eneral Mana | _<br>ger - | Telephone Operations | 304-203  | _              |           | ARIZ    |  |  |
| Cineron mental Date  |                         |                |           | _           | 11110                               |           |             |            |                      |          | Dail           | nirge     | Imental | ment of<br>Protectio                   |  |