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

| API <u>47</u> 033 05684 County HAI   | RRISON                               | District SARDIS                      |                         |
|--|--------------------------------------|--------------------------------------|-------------------------|
| Quad WOLF SUMMIT 7.5' Pad Name C   |                                      | Field/Pool Name _W                   | VOLF SUMMIT             |
|  |                                      |                                      |                         |
| Operator (as registered with the OOG) H.G. ENERGY  | ( LLC                                |                                      |                         |
| Address 5260 DuPONT ROAD City  | PARKERSBURG                          | StateWV                              | Zip 26101               |
| Top holeNorthing 4.353,331Landing Point of CurveNorthingBottom HoleNorthing  | Easti                                | ng<br>ng<br>ng                       |                         |
| Elevation (ft) 1,152' GL Type of W   | ell ∎New □ Existing                  | Type of Report                       | □Interim <b>■</b> Final |
| Permit Type   Deviated  Horizontal  Ho   |                                      |                                      |                         |
| Type of Operation □ Convert □ Deepen ■ Drill   | 🗆 Plug Back 🛛 🗆 Redril               | ling 🗆 Rework                        | Stimulate               |
| Well Type □ Brine Disposal □ CBM □ Gas □ Oil   | Secondary Recovery 🗆 So              | lution Mining 🛛 St                   | orage 🗆 Other           |
| Type of Completion ■ Single □ Multiple       Fluids F         Drilled with □ Cable       ■ Rotary       This         Drilling Media       Surface hole       ■ Air □ Mud       ■ Fresh         Production hole       ■ Air       □ Mud       ■ Fresh Water       □         Mud       Type(s) and Additive(s)       ■       ■       ■       ■ | is a brine well water Intermediate h | 7                                    |                         |
| N/A  |                                      |                                      |                         |
| Date permit issued 10/24/12 Date drilling  | commenced1/31/14                     | Office of Oil<br>WV Dept. of Environ | mental Protection       |
|  | Date completion activ                |                                      |                         |
| NI   | anted                                |                                      |                         |
| Please note: Operator is required to submit a plugging a   | oplication within 5 days of ve       | rbal permission to p                 | blug                    |
| Freshwater depth(s) ft None  | Open mine(s) (Y/N) de                | epths                                | Ν                       |
| Salt water depth(s) ft None  | Void(s) encountered (N               | (/N) depths                          | N                       |
| Coal depth(s) ft 190'-200'   | Cavern(s) encountered                |                                      | N                       |
| Is coal being mined in area (Y/N) N  |                                      |                                      |                         |

Reviewed by:

06/27/2017

### WR-35

# API 47-033 - 05684 Farm name\_MIKE ROSS, INC. & I.L. MORRIS Well number\_10

| CASING             | Hole     | Casing  |         | New or | Grade        | Basket   | Did cement circulate (Y/ N) |
|--------------------|----------|---------|---------|--------|--------------|----------|-----------------------------|
| STRINGS            | Size     | Size    | Depth   | Used   | wt/ft        | Depth(s) | * Provide details below*    |
| Conductor          | 17 1/2'  | 13 3/8" | 30'     | Used   | LS           |          | Sand In                     |
| Surface            | 12 1/4"  | 9 5/8"  | 253'    | New    | LS           | 64'      | Y                           |
| Coal               |          |         |         |        |              |          |                             |
| Intermediate 1     | 8 3/4"   | 7"      | 450'    | New    | LS           | 64'      | N                           |
| Intermediate 2     |          |         |         |        |              |          |                             |
| Intermediate 3     |          |         |         |        |              |          |                             |
| Production         | 6 1/2"   | 4 1/2"  | 2731.6' | New    | J-55         |          | Y                           |
| Tubing             |          |         |         |        |              |          |                             |
| Packer type and de | epth set |         | 1       | 1      | 1. <u></u> . |          |                             |

Comment Details \_\_\_\_\_\_\_ Grouted surface on 7" surface cement job w/ 45 sks. Circulated Est. 50 sks to surface on 4 1/2" cement job.

| CEMENT<br>DATA                                    | Class/Type<br>of Cement      | Number<br>of Sacks | Slurry<br>wt (ppg) | Yield<br>( ft <sup>3</sup> /sks)                     | Volume $(ft^{\frac{3}{2}})$ | Cement<br>Top (MD)                       | WOC<br>(hrs) |
|---|------------------------------|--------------------|--------------------|--|-----------------------------|--|--------------|
| Conductor   |                              |                    |                    | (11.10)  |                             |  | (III3)       |
| Surface   | Reg Neat                     | 165                | 15.6               | 1.18   | 195                         | Surface                                  | 8            |
| Coal  |                              |                    |                    |  |                             |  |              |
| Intermediate 1                                    | Reg Neat                     | 110                | 15.6               | 1.18   | 130                         | Surface                                  | 8            |
| Intermediate 2                                    |                              |                    |                    |  |                             |  | · ·          |
| Intermediate 3                                    |                              |                    |                    |  |                             |  |              |
| Production  | 50:50 Pozmix/ Econo          | 200/60             | 14.2/11.8          | 1.27/2.93  | 254/176                     | 25'                                      | 8            |
| Tubing  |                              |                    |                    |  |                             |  |              |
| Drillers TD (ff<br>Deepest forma<br>Plug back pro | tion penetrated Fifth S      | and                |                    | gers TD (ft) <u>277</u><br>g back to (ft) <u>N/A</u> |                             |  |              |
| Kick off depth<br>Check all wire                  | · /                          | •                  |                    | deviated/directi<br>gamma ray                        |                             | ction<br>perature □sonic                 |              |
|   | ■ Yes ■ No<br>HE CENTRALIZER |                    |                    |  | -                           | llected ■ Yes □                          |              |
| WAS WELL (  | COMPLETED AS SH              | IOT HOLE 🛛         | Yes 🛢 No           | DETAILS  |                             | Recei                                    |              |
| WAS WELL  | COMPLETED OPEN               | HOLE? 🗆 Ye         | es 🛯 No            | DETAILS  |                             | JUN 18                                   | 2014         |
| WERE TRAC   | ERS USED 🗆 Yes               | No TY              | PE OF TRACE        | R(S) USED  | WV                          | Office of Oil and<br>Dept. of Environmen | d Gas        |

## API 47-033 \_ 05684

### Farm name\_\_\_\_\_MIKE ROSS, INC. & I.L. MORRIS\_\_\_\_\_Well number\_\_\_\_10

| Stage<br>No. | Perforation date | Perforated from<br>MD ft. | Perforated to MD ft. | Number of<br>Perforations | Formation(s) |
|--------------|------------------|---------------------------|----------------------|---------------------------|--------------|
| 1            | 5/19/14          | 2600'                     | 2603'                | 12                        | Fifth Sand   |
| 1            | 5/22/14          | 2592'                     | 2593'                | 4                         |              |
| 1            | 5/22/14          | 2578'                     | 2581'                | 12                        |              |
|              |                  |                           |                      |                           |              |
|              |                  |                           |                      |                           |              |
|              |                  |                           |                      |                           |              |
|              |                  |                           |                      |                           |              |
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|              |                  |                           |                      |                           |              |
|              |                  |                           |                      |                           |              |
|              |                  |                           |                      |                           |              |

PERFORATION RECORD

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   | Ave Treatment  | Max Breakdown  |            | Amount of      | Amount of    | Amount of              |
|--------------|----------------------|------------|----------------|----------------|------------|----------------|--------------|------------------------|
|              |                      | Rate (BPM) | Pressure (PSI) | Pressure (PSI) | ISIP (PSI) | Proppant (lbs) | Water (bbls) | Nitrogen/other (units) |
| 1            | 5/22/14              | 10         | 1740           | 2227           | 1667       | 40,000         | 862          |                        |
|              |                      |            |                |                |            |                |              |                        |
|              |                      |            |                |                |            |                |              |                        |
|              |                      |            |                |                |            |                |              |                        |
|              |                      |            |                |                |            |                |              |                        |
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|              |                      |            |                |                |            |                |              |                        |
|              |                      |            |                |                |            |                |              |                        |
|              |                      |            |                |                |            | (and           |              |                        |
|              |                      |            |                |                |            |                | ecen         | /eu                    |
|              |                      |            |                |                |            |                |              |                        |
|              |                      |            |                |                |            |                | JUN 18       | 014                    |
|              |                      |            |                |                |            | <b>*</b>       |              | - <del>//192</del>     |

Please insert additional pages as applicable.

Office of Oil and Gas WV Dept. of Environmental Protection WR-35

| API 47- 033             | _ 05684                        | Farm           | name MIKE RO | OSS, INC                 | . & I.L. MORR | IS Well nun | nber 10     |  |      |
|-------------------------|--------------------------------|----------------|--------------|--------------------------|---------------|-------------|-------------|--|------|
| PRODUCING               | FORMATION(                     | S)             | DEPTHS       |                          |               |             |             |  |      |
|                         |                                |                |              |                          |               |             |             |  |      |
| Fifth Sand              |                                |                | 2581'-2603   | _TVD                     |               | MD          |             |  |      |
|                         |                                | =              |              | 2                        |               |             |             |  |      |
| Please insert ad        | lditional pages a              | as applicable. |              | - 0                      |               |             |             |  |      |
| GAS TEST                | □ Build up □                   | Drawdown       | □ Open Flow  |                          | OIL TEST      | Flow DPu    | imp         |  |      |
| SHUT-IN PRE             | SSURE Surf                     | ace            | _psi Botto   | om Hole                  | psi           | DURATIC     | N OF TE     | ST hrs                                 |      |
| OPEN FLOW               |                                |                |              |                          | Water bpd     |             |             |  |      |
| LITHOLOGY/<br>FORMATION | TOP<br>DEPTH IN FT<br>NAME TVD | DEPTH IN FT    |              | BOTTOM<br>DEPTH IN<br>MD | FT DESCRIBE   |             |             | RD QUANTITY AND<br>INE, OIL, GAS, H2S, |      |
| Sand/Shale              | 0                              | 190            | 0            |                          |               | - Y X X X   |             |  |      |
| Pittsburgh Coal         | 190                            | 200            |              |                          |               |             |             |  |      |
| Sand/Shale              | 200                            | 1596           |              |                          |               |             |             |  |      |
| Big Lime                | 1596                           | 1678           |              |                          |               |             |             |  |      |
| Big Injun               | 1678                           | 1755           |              |                          |               |             |             |  |      |
| Shale                   | 1755                           | 2178           |              |                          |               |             |             |  |      |
| Fifty Foot              | 2178                           | 2200           |              |                          |               |             |             |  |      |
| Shale                   | 2200                           | 2254           |              |                          |               |             |             |  |      |
| Sand                    | 2254                           | 2444           |              | -                        |               |             |             |  |      |
| Shale                   | 2444                           | 2581           |              |                          |               |             |             |  |      |
| Fifth Sand              | 2581                           | 2603           |              |                          |               |             |             |  |      |
| Shale                   | 2603                           | 2810           |              |                          |               |             |             |  |      |
| TD                      | 2810                           |                |              |                          |               |             |             |  |      |
| Please insert ad        | ditional pages a               | s applicable.  | -            |                          |               |             |             |  |      |
|                         |                                |                |              |                          |               |             |             |  |      |
| Address 11565           | ctor Decker Drill              | ing            | C*+          | Vincent                  |               | o 0         |             | 45794                                  |      |
| Address 11505           | State Route 070                |                | City         | vincent                  |               | StateO      | Zıp         | 45784                                  |      |
| Logging Comp            | any Weatherford                | International  |              |                          |               |             |             |  |      |
| Address 777 No          | orth River Avenue              |                | City         | Weston                   |               | State W     | v Zir       | 26452                                  |      |
|                         |                                | 1.000          |              |                          |               |             |             |  |      |
|                         | npany Baker Hu                 | ighes          |              |                          |               |             |             | 0000                                   |      |
| Address 2228 P          | hilippi Pike                   | _              | City         | Clarksburg               | 1             | StateW      | V Zip       | 26301                                  |      |
| Stimulating Co.         | mpany Produc                   | ers Service Co | orp.         |                          |               |             |             |  |      |
|                         | uth Graham Street              |                | City         | Zanesville               | ð             | State O     | H Zir       | , 43701                                |      |
|                         | lditional pages a              |                |              |                          |               |             |             | Receiv                                 | lon  |
| Completed by            | Roger Heldman                  |                |              |                          | Telephone     | 304-420-11  | 07          |  |      |
| Signature               | Ra                             | electro        | Title O      | poerations N             |               |             | te 06/17/14 | JUN 1 8 2                              | -    |
|                         | 00                             |                |              |                          |               |             |             | 18 2                                   | 2014 |

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

Office of Oil and Gas

33.05684

Prepared for:

HG Energy LLC.

Dustin Hendrshot

INVOICE #:

15668



Prepared by: Producers Service Corp Justin Snyder 109 S. Graham St.

Zanesville, OH 43702

740-454-6253

| IIII IIII IIII                                 |                    |        |       |           |            |
|--|--------------------|--------|-------|-----------|------------|
| WELL NAME: CL Griffin #10 Stage #2             |                    |        |       |           |            |
| COUNTY/STATE Harrison/WV                       |                    |        |       |           |            |
| TOWNSHIP/FIELD: Wolf Summit                    |                    |        |       |           |            |
| DATE of SERVICE: 5/22/2014                     |                    |        |       |           |            |
| CUSTOMER PO#                                   | 1                  |        |       |           |            |
| Description                                    | Notes              | Amount | Units | Unit Cost | Total Cost |
| FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS  |                    | 1      | EA    | \$        | ¢ 2750.00  |
| BLENDER CHARGE 0-10 BPM                        |                    | 1      | EA    | \$        |            |
| MILEAGE CHARGE PER UNIT ONE WAY                | 2 Units @ 70 Miles |        | MI    | \$        |            |
| SAND 20/40 OTTAWA                              |                    | 200    | CWT   | \$        |            |
| SAND 20/40 OTTAWA<br>SAND DELIVERY / TON MILES | 10 Tons X 70 Miles | 700    |       | \$        |            |
| IC ACID 15%                                    |                    | 500    | GAL   | \$        |            |
| PRO HIB II                                     |                    | 1      | GAL   | \$        |            |
| ACID DELIVERY                                  |                    |        | HR    | \$        |            |
| PRO CLA LOK (KCL SUBSTITUTE)                   |                    | 20     | GAL   | \$        |            |
| PRO NE-21                                      | 4                  | 10     | GAL   | \$        |            |
| PRO GEL 4                                      |                    | 400    | LB    | \$        |            |
| BUFFERI  |                    | 50     |       | \$        |            |
| BUFFER II                                      |                    | 50     |       | \$        |            |
| BIO CLEAR 750                                  |                    | 1      | LB    | \$        |            |
| AP BREAKER                                     | 1                  | 22     |       | \$        |            |
| BXL-A  |                    | 15     |       | 100       |            |
| BXL-10C  |                    | 15     |       | 13        |            |
| DATA VAN                                       | 1                  |        | STAGE |           |            |
| Flowmeter 2" or 3"                             |                    | 1      | STAGE | 1         |            |
|  |                    |        |       | +         |            |
|  |                    |        | -     | +         |            |
|  |                    |        | -     | +         |            |
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|  |                    |        |       | 4         |            |

Customer Approval:

Received

JUN 1 8 2014

Office of Oil and Gas WV Dept. of Environmental Protection 06/27/2017