DATE: 1/6/69 API: 47-097-03542

# State of West Virginia Division of Environmental Protection Section of Oil and Gas

# Well Operator's Report of Well Work

| Farm Nan       | n <u>e:</u>   | ADA Koon     |   | Oper         | ator W   | ell No.                        | <del></del>                            | Koon #1 D    | O809                                  |
|----------------|---------------|--------------|---|--------------|----------|--------------------------------|--|--------------|---------------------------------------|
| LOCATIO        | N:            | Elevation:   | 1411'                                   |              | Quadr    | angle:                         | ٠                                      | Berlin       | İ                                     |
|                |               | Buckh        | <del></del>                             | •            |          | ounty:                         |  | Upshu        | · · · · · · · · · · · · · · · · · · · |
|                |               |              | Feet S. of                              | 39           |          |                                |  |              | ec.                                   |
|                |               |              | Feet W. of                              |              |          | 15                             |  |              | ec.                                   |
|                | Longitude.    | 2,700        | i cet vv. or                            |              | Deg.     | 10                             | IVIII I.                               |              |                                       |
| Company        | Devonian (    | Gas Produc   | tion,Inc.                               |              |          |                                |  |              |                                       |
|                |               |              | I                                       | Casi         | na & I   | Use                            | ed in                                  |              | Cement fill                           |
| Address:       | PO Box 90     | )7           |   | Tub          | - 1      |                                | illing                                 | Left in We   | II up Cu. Ft.                         |
|                |               | WV 26378     |   | 9 5          |          |                                | 30                                     |              | Pulled                                |
|                | ound Low,     | *** 20010    |   | 7            |          |                                | 70'                                    | 870'         | to surface                            |
| Agent:         |               | Jo           | hn Haskins                              |              |          | -48                            |  | 4344'        | 180 sks.                              |
| Inspector:     |               |              | Duckworth                               | <del></del>  |          |                                | <del></del>                            | 1011         | 1 ,000,000                            |
|                | nit Issued:   |              | 06/25/08                                |              |          |                                | ······································ |              | -                                     |
|                | Work Comr     | nenced:      | 07/20/08                                |              |          |                                |  |              | <b> </b>                              |
|                | Work Comp     |              | 08/06/08                                |              |          |                                | •                                      | 1            |                                       |
| Verbal Plu     |               |              |   | <del> </del> |          | ······························ |  |              |                                       |
|                | nission Gran  | ited on:     |   |              |          |                                |  |              |                                       |
| Rotary X       |               | Rig          | *** **** **** ****                      |              |          |                                |  |              |                                       |
| Total Dep      |               |              | 4450'                                   |              |          |                                |  |              |                                       |
|                | ter Depth (ft | ):           | none                                    |              |          |                                |  |              | -                                     |
|                |               | <i></i>      |   |              |          |                                |  |              |                                       |
| Salt Wate      | r Depth (ft): |              | none                                    |              |          |                                |  |              | <u>"</u>                              |
|                |               | ····         |   |              |          |                                |  |              |                                       |
| Is coal be     | ing mined in  | the area (\  | //N)?                                   | N            |          |                                |  |              |                                       |
| Coal           | Depths (ft):  | NA           | •                                       |              |          |                                |  |              |                                       |
|                |               |              |   |              |          |                                |  |              |                                       |
| <b>OPEN FL</b> | OW DATA       |              | 5th                                     |              |          |                                |  |              | 2347'                                 |
|                | Producing     | formations   | speec                                   | hley         |          | Pay zo                         | ne dep                                 | th (ft)      | 2776'                                 |
|                |               |              | balito                                  | พก           |          |                                |  |              | 3427'                                 |
|                |               |              | rile                                    | у            | _        |                                |  | -            | 3864'                                 |
|                |               |              | bens                                    | on           |          |                                |  |              | 4196'                                 |
|                |               |              |   |              |          |                                |  |              |                                       |
|                |               |              |   |              | _        |                                |  | _            |                                       |
|                |               |              |   |              |          |                                |  |              |                                       |
|                |               | i open flow  |   | Mcf/d.       |          | -                              |  |              | bl/d                                  |
|                |               | I open flow  | *************************************** | Mcf/d.       |          | al ope                         |  |              | bl/d                                  |
|                | •             |              | ween initial a                          |              | -        |                                | 4                                      | Hours        |                                       |
|                | Static roc    | k Pressure   | 1225                                    | psig (su     | ırface p | oress.)                        | after                                  | <u>48</u> H  | lours                                 |
|                | _             |              |   |              | _        | _                              |  |              |                                       |
|                |               | •            | he following                            |              |          |                                |  | •            | _                                     |
|                |               |              | 2) The wel                              | _            |          | -                              |  | tailed geolo | gical                                 |
| record of      | ali formation | s, including | coal encou                              | ntered t     | by the v | vellbor                        | <b>e</b> .                             |              |                                       |
| <u> </u>       |               |              | ,                                       |              |          |                                |  |              |                                       |
| Signed         |               | Amb          | <del>;</del>                            |              | _        |                                |  |              |                                       |
|                | By:           | 1-1-         | · · · · · · · · · · · · · · · · · · ·   |              |          |                                |  | •            | •                                     |
|                | Date: //      | 6/09         | ·····                                   |              |          |                                |  |              |                                       |
|                | ,             |              |   |              |          |                                |  |              |                                       |
|                |               |              |   |              |          |                                |  |              |                                       |

# **HYDRAULIC FRACTURING DETAILS**

| STAGE     | FORMATION | PERFORATIONS | SAND   |  |
|-----------|-----------|--------------|--------|--|
|           |           | # of shots   | 20/40  |  |
| 1st Stage | benson    | 10           | 15,000 |  |
| 2nd Stage | riley     | 10           | 35,000 |  |
| 3rd Stage | balltown  | 10           | 15,000 |  |
| 4th stage | speechley | 10           | 15,000 |  |
| 5th       | 5th Sand  | 14           | 30,000 |  |
|           |           |              |        |  |

### **DRILLERS LOG**

| DRILLERS LOG   |                   |       |  |  |  |
|----------------|-------------------|-------|--|--|--|
| FORMATION      | FROM              | ТО    |  |  |  |
| fill           | 0                 | 10    |  |  |  |
| sand and shale | 10                | 1,590 |  |  |  |
| big lime       | 1,590             | 1,770 |  |  |  |
| sand and shale | 1,770             | 2,340 |  |  |  |
| fifth sand     | 2,340             | 2,402 |  |  |  |
| sand and shale | 2,402             | 2,930 |  |  |  |
| speechley      | 2,930             | 2,962 |  |  |  |
| sand and shale | 2,962             | 3,134 |  |  |  |
| balltown       | 3,13 <del>4</del> | 3,214 |  |  |  |
| sand and shale | 3,214             | 3,470 |  |  |  |
| bradford       | 3,470             | 3,546 |  |  |  |
| sand and shale | 3,546             | 3,882 |  |  |  |
| riley          | 3,882             | 3,946 |  |  |  |
| sand and shale | 3,946             | 4,246 |  |  |  |
| benson         | 4,246             | 4,284 |  |  |  |
| sand and shale | 4,284             | TD    |  |  |  |
|                |                   |       |  |  |  |
|                |                   | ·     |  |  |  |
|                |                   |       |  |  |  |
|                |                   |       |  |  |  |
|                |                   |       |  |  |  |
|                |                   |       |  |  |  |
|                |                   |       |  |  |  |
|                |                   |       |  |  |  |
|                |                   |       |  |  |  |
|                |                   |       |  |  |  |
|                |                   |       |  |  |  |
|                | 1                 |       |  |  |  |
|                | <u> </u>          | 1     |  |  |  |

### **ELECTRIC LOG**

| big lime 1,590 fifth sand 2,340 speechley 2,940 balltown 3,460 bradford 3,470 riley 3,880 benson 4,245                                   | FORMATION | DEPTH |
|--|-----------|-------|
| fifth sand       2,340         speechley       2,940         balltown       3,460         bradford       3,470         riley       3,880 | big lime  | 1,590 |
| speechley         2,940           balltown         3,460           bradford         3,470           riley         3,880                  |           | 2.340 |
| riley 3,880  | speechley | 2,940 |
| riley 3,880  | balltown  | 3,460 |
| riley 3,880  | bradford  | 3,470 |
| benson 4,245   | riley     | 3,880 |
|  | benson    | 4,245 |
|  |           |       |
|  |           |       |
|  |           |       |
|  |           |       |
|  |           |       |
|  |           |       |
|  |           |       |
|  |           |       |
|  |           |       |
|  |           |       |
|  |           |       |
|  |           |       |
|  | ·         |       |
|  |           |       |
|  |           |       |
|  |           |       |
|  |           |       |
|  |           |       |
|  |           |       |
|  |           |       |
|  |           |       |