

### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

March 31, 2015

#### WELL WORK PERMIT

### Secondary Recovery Well

This permit, API Well Number: 47-8704765, issued to HG ENERGY, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: IVY FISCHER 111

Farm Name: KING, WILLIE

API Well Number: 47-8704765

Permit Type: Secondary Recovery Well

Date Issued: 03/31/2015

### **PERMIT CONDITIONS**

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### **CONDITIONS**

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

FORM WW-3 (B) 1/12



| 1) | Date:    | 01/13/20  | 15    |      |            |   |   |        |  |
|----|----------|-----------|-------|------|------------|---|---|--------|--|
| 2) | Operator | 's Well 1 | No.   | lvy  | Fisher 111 |   |   |        |  |
| 3) | API Wel  | ll No.:   | 47    | -    | Roane      | - | s |        |  |
|    |          |           | State | -    | County     |   |   | Permit |  |
| 4) | UIC Per  | mit No.   | UIC2  | R087 | 704AP      |   |   |        |  |

# STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

| 5) WELL TY<br>6) LOCATIO |  | d Injection<br>on: 1038' | 1                                       | _ /                            |                 | tion (not storage<br>tershed: Ru   | e)<br>sh Run           |                       |            | osal                               |
|--------------------------|--|--------------------------|---|--------------------------------|-----------------|------------------------------------|------------------------|-----------------------|------------|------------------------------------|
|                          |  | : Smithfie               | eld                                     |                                | Cou             | inty Roane                         |                        |                       |            | neyville 7.5'                      |
| 7) WELL OP               | ERATOR: H  |                          |   |                                |                 | 8) DESIGNAT                        | TED AGE                | NT Diane Wi           | nite       |                                    |
|                          |  | 260 Dupont               |   |                                |                 |                                    | Address                | 5260 Dup              | ont Road   |                                    |
|                          | The state of the s | arkersburg,              |   | 1                              |                 |                                    |                        | Parkersb              | urg, WV 2  | 6101                               |
| OIL & GA                 | S INSPECTO   |                          |   |                                |                 | 10) DRILLING                       | G CONTR                | ACTOR                 |            | 711                                |
|                          | d Gainer   | It TO BE                 | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                                |                 | Name To E                          | Be Determin            | ed Upon Appro         | oval of Pe | rmit                               |
| -                        |  |                          |   |                                |                 | Address                            |                        |                       |            |                                    |
|                          | pencer, WV 252   | 76                       |   |                                | _               | _                                  |                        |                       |            |                                    |
|                          | ED WELL W  | 1                        | Plug off of Other p                     | hysical o                      | / Drill dation  | / Perfor                           |                        | rmation[              | 1          | Stimulate Convert 20 Feet (bottom) |
| 13) Estimated            | GIC TARGET<br>I Depth of Connate water stra  | mpleted W                | ell, (or a                              | Big Injun<br>ctual de<br>esh 3 | pth of exist    | ing well):22<br>Feet               | 2100<br>200'<br>Salt _ | Feet (top) Feet 1600' | Feet       | 20 Feet (bottom)                   |
|                          | nate coal seam   |                          | NA                                      |                                |                 |                                    |                        |                       |            |                                    |
|                          | ing mined in   |                          | _                                       |                                | No              | X                                  |                        |                       |            |                                    |
| 17) Virgin re            | servoir pressu   | re in targe              | formation                               | on 1250                        |                 | Source                             | Estimated              |                       |            |                                    |
| 18) Estimated            | d reservoir fra  | cture press              | nire                                    |                                |                 |                                    |                        |                       | 2650       | psig (BHFP)                        |
| 10) MAVIM                | IM PROPOS  | ED INIEC                 | TIONO                                   | PERAT                          | IONS: V         | olume per hou                      | r 25 BBL               | Bottom h              | ole press  | sure 2400 psi                      |
| 20) DETAIL               | ED IDENTIF   | CATION                   | OF MA                                   | <b>FERIAL</b>                  | STOBEL          | NJECTED, INC<br>quality and improv | CLUDING                | ADDITIVE              | S Fresh    | water, produced                    |
| water, bacte             | ericides and oth   | er chemical              | s as need                               | ed to mail                     | Chara           | luanty and improv                  | C OII TCCOTC           | .,.                   |            |                                    |
| 21) FILTERS              | (IF ANY) _C  | Cartridge filt           | ers and/or                              | coal bed                       | Tillers         | OTHER COR                          | DOGLONIC               | CONTROL               |            |                                    |
| 22) SPECIFI              | CATIONS FO   | OR CATHO                 | ODIC PR                                 | COTECT                         | ION AND         | OTHER COR                          | KOSION C               | ONTROL                | -          |                                    |
|                          |  |                          |   |                                |                 |                                    |                        |                       |            |                                    |
| 23) CASING A             | AND TUBING   | PROGRAN                  | Λ                                       |                                |                 |                                    | **                     |                       |            | n i gyrpng                         |
| CASING OF                | R  |                          | CIFICAT                                 | IONS                           | FOOTAGE INTERVA |                                    |                        | THE PARTY AND         | PACKERS    |                                    |
| TUBING TY                | PE Size  | Size Grade               | Weight Ne                               | New                            | Used            | For Drilling                       | Left In<br>Well        | OR SACKS              |            |                                    |
|                          | 1  |                          | per re.                                 |                                |                 |                                    |                        | (CU, FT.)             |            |                                    |
| Conductor                |  |                          |   |                                |                 |                                    |                        |                       | Kinds      |                                    |
| Fresh Water              | 7"   | LS ST&C                  | 17#                                     | x                              |                 | 500'                               | 500'                   | CTS                   |            |                                    |
| Coal                     |  |                          | 7                                       |                                |                 |                                    |                        |                       | Sizes      |                                    |
| Intermediate             |  |                          |   | 1                              |                 |                                    |                        |                       |            | 2.375"x4.5"                        |
| Production               | 4 1/2"   | J-55                     | 10.5#                                   | X                              |                 | 2160'                              | 2160'                  | 200 sks               | Depths     |                                    |
| Tubing                   | 2 3/8"   | J-55                     | 4.6#                                    | X                              |                 | 1910'                              | 1910'                  |                       |            | 1810'                              |
| Liners                   |  |                          |   |                                |                 |                                    |                        |                       | Perfor     |                                    |
|                          |  |                          |   |                                |                 |                                    |                        |                       | Top        | Bottom                             |
|                          |  |                          |   |                                |                 |                                    |                        |                       |            |                                    |
| 24) APPLIC               | ANT'S OPER   | ATING R                  | IGHTS                                   | were acc                       | uired from      | J. O. Fisher                       |                        |                       |            |                                    |
| by deed                  |  |                          | x /                                     | other c                        | ontract         | / dated                            | 09/23/190              | 09                    |            | of record in the                   |
| by deed                  | Roane  | - C                      | ounty C                                 |                                |                 | RECEN                              |                        |                       | 16         | Page 257                           |
| -                        | Roane  |                          | Ounty C                                 | 301                            |                 |                                    |                        |                       |            |                                    |
| 1                        |  | 1                        | 1                                       | 1                              | O               | fice of Oil                        | and Ga                 | 157                   |            |                                    |
| X                        | 1  |                          | 1                                       | -)                             |                 | 3                                  |                        |                       |            |                                    |
| 1                        | /  | 4                        | 1110                                    | -                              |                 | FEB 03                             | 2315                   |                       |            |                                    |
| /                        |  | 1/2                      | (1)                                     | )                              |                 | · A                                | -5.00                  |                       |            | 0.4/0.0/0.0/=                      |
|                          |  | 1                        |   |                                |                 |                                    |                        | ,                     |            | 04/03/2015                         |

M// Department of Environmental Inches of the Control of the Contr

FORM WW-3 (A) 1/12



| 1) Date: Ja   | inuary 13 | , 2015 | 5        |         |   |        |
|---------------|-----------|--------|----------|---------|---|--------|
| 2) Operator's | Well N    | lo.    | Ivy Fisl | ner 111 |   |        |
| 3) API Well   | No.:      | 47     |          |         | - |        |
|               |           | State  |          | County  |   | Permit |
| 4) UIC Permi  | No.       | UICZE  | 208704   | AP      |   |        |

# STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OF WASTE DISPOSAL WELL WORK PERMIT APPLICATION FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS,

| (a) Name Address   Spancer, WV 25276   To (b) Coal Owner(S) With Declaration Of Record   Name Address   Spancer, WV 25276   Address   Name Address   Address   Address   Address   Address   Spancer, WV 25276   Address   Address | 5) Surface Ow   | rner(S) To Be Served 7   | (a) Coal Operator   |   |  |  |  |
|--|---|--|---|---|--|--|--|
| Spencer, WV 25276   7) (b) Coal Owner(S) With Declaration Of Record   Name   Address   | (a) Name  | Richard Fisher   | Name  |   |  |  |  |
| (b) Name Address Address (c) Name Address (d) Name Address (e) Name Address (e) Name Address (f) Name Addres | Address   | 4513 Clay Road   | Address   |   |  |  |  |
| 1090 Clover Road   Name   Address  |   |  |   |   |  |  |  |
| Spencer, WV 25276  Address  (c) Name Address  Address  Address  Address  Address  Address  Address  F. O. Box 821 Spencer, WV 25276  Address  To THE PERSONS NAMED ABOVE: You should have received this form and the following documents of the parties involved in the drilling or other work;  The plat (surveyor's map) showing the well location on Form WW-6; and  (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for crosion and sediment control and for reclamation for the site and access road.  The date proposed for the first injection or waste disposal is  THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-3(B)) DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ACTION AT ALL.  Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of the mailing or delivery to the Chief.  The person signing this document shall make the following certification:  Well Operator Address  Well Operator Address  The person signing this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, including the information is true, accurate and complete. Lan aware, that there, are significant penalties for submitting false information,  | (b) Name  | Willie King 7  | (b) Coal Owner(S) With D  | eclaration Of Record  |  |  |  |
| (c) Name Address F. O. Box 821 Name Spencer, WV 25276 Address Telephone 304-389-7582  TO THE PERSONS NAMED ABOVE: You should have received this form and the following documents (1) The Application For A Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work; (2) The plat (surveyor's map) showing the well location on Form WW-6; and (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for crosion and sediment control and for reclamation for the site and access road.  The date proposed for the first injection or waste disposal is  THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-3(B)) DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ACTION AT ALL.  Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application described on the attached Application in certain circumstances) on or before the day of the mailing or delivery to the Chief.  The person signing this document shall make the following certification:  Well Operator The Person signing this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, ill-bicker that the following certification:  Well Operator Address  The person signing this document and all attachments and that, based on my inquiry of those individuals immediat | Address   | 1090 Clover Road   | Name  |   |  |  |  |
| Address Address  6) Inspector Ed Galner 7) (c) Coal Lessee with Declaration Of Record Address P. O. Box 821 Name Address Spencer, WV 25276 Address 304-389-7582  TO THE PERSONS NAMED ABOVE: You should have received this form and the following documents (1) The Application For A Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work;  (2) The plat (surveyor's map) showing the well location on Form WW-6; and  (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.  The date proposed for the first injection or waste disposal is 20 15 .  THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION [FORM WW-3(B)] DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ACTION AT ALL.  Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of the mailing or delivery to the Chief.  The person signing this document shall make the following certification:  "I certify under penalty of law that I have personally examined and an amailiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the informat |   | Spencer, WV 25276  | Address   |   |  |  |  |
| 6) Inspector Address  Telephone  To THE PERSONS NAMED ABOVE: You should have received this form and the following documents  (1) The Application For A Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work;  (2) The plat (surveyor's map) showing the well location on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.  The date proposed for the first injection or waste disposal is  The REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION (HICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-3(B)) DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ACTION AT ALL.  Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of the mailing or delivery to the Chief.  The person signing this document shall make the following certification:  Well Operator Address  The Energy LLC  The Ener | (c) Name  |  | Name  |   |  |  |  |
| Address Telephone TO THE PERSONS NAMED ABOVE: You should have received this form and the following documents To The Application For A Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work; The plat (surveyor's map) showing the well location on Form WW-6; and The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for crosion and sediment control and for reclamation for the site and access road.  The date proposed for the first injection or waste disposal is  The REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-3(B)) DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ACTION AT ALL.  Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of the mailing or delivery to the Chief.  The person signing this document shall make the following certification:  Well Operator Address  Well Operator Address  Well Operator Address  Well Operator Address  The parkersburg. W 26101  Diane White  Agent  Diane White  Agent  Diane White  Agent   | Address   |  | Address   |   |  |  |  |
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| To the persons named and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application in certain circumstances) on or before the day of the mailing or delivery to the Chief.  The person signing the information is true, accurate and complete. Lam aware that there are significant penalties for submitting rates information, including the possibility of fine and imprisonment.  To the Persons you have received this form and the following documents (1st on WW-3(B)), which sets out the parties involved in the dillipsic of the and the following documents for a Well Work is only to plug a well), which sets out the plan for crossion and sediment control and for reclamation for the site and access road.  The date proposed for the first injection or waste disposal is  |   | P. O. Box 821  | Name  |   |  |  |  |
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| "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, hockeye that the information is true, accurate and complete. Lam aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.  | Notice and Ap<br>West Virginia<br>Application an<br>and Reclamati | plication and accompanying documents for a<br>Department of Environmental Protection, was<br>ad depicted on the attached Form WW-6. Cop<br>on Plan have been mailed by registered or cer | Well Work Permit with the<br>rith respect to a well at the<br>pies of this Notice, the App<br>tified mail or delivered by | ne Chief of the Office of Oil and Gas,<br>the location described on the attached<br>dication, the plat, and the Construction<br>hand to the person(s) named above (or |  |  |  |
| am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, helieve that the information is true, accurate and complete. Lam aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.  |   | The person signing this documen  | t shall make the followin   | g certification:  |  |  |  |
| am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, hockeye that the information is true, accurate and complete. Lam aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.  | WI nortificant  | r penalty of law that I have personally evening  | ed and Well Operator  | HG Energy, LLC  |  |  |  |
| attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, horizontal By:  The information is true, accurate and complete. Lam aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.   | am familiar w   | the information submitted in this document   | and all Address   | 5260 Dupont Road  |  |  |  |
| the information is true, accurate and complete. Lam aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.   |   |  |   | Parkersburg, WV 26101   |  |  |  |
| the information is true, accurate and complete. Lam aware that there, are significant penalties for submitting false information, including the possibility of fine and imprisonment.  | immediately re  | esponsible for obtaining the information, held   | eve that By:  | Diane White   |  |  |  |
| the possibility of fine and imprisonment.  | the information   | n is true, accurate and complete. Lam aware, the   | at there. Its:  | Agent   |  |  |  |
|  |   | of fine and imprisonment.  | <b>C</b> :  | Diane white   |  |  |  |

WV Department of Environmental Protection

4513 Clay Road

Spencer, WV Z5Z76

or PO Box No. City, State, ZIP+4

| Peoples (2)  B A N K  Working Together. Building Success.  FOR Permit Tyy Fisher No. 111 | Six Hundred Fifty Dollars and 00/100 | PAY TO THE OF WV D.E.P. | HG ENERGY, LLC 03-11  304-422-6565 5260 DUPONT RD PARKERSBURG, WV 26101  DATE 1-14-20 |
|--|--------------------------------------|-------------------------|---|
| Bal Both   | DOLLARS I MARKET                     | \$ 650.00               | 2898<br>55-250/442<br>02<br>DATE 1-14-2015  |

8704 165 5

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FEB 0 6 2015

WV Department of Environmental Protection



The Contract of

WW-2B1 (5-12)

| Well | No. | Ivy Fisher 111 |
|------|-----|----------------|
|      |     |                |

### West Virginia Department of Environmental Protection Office of Oil and Gas

#### NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Sturm Environmental

Sampling Contractor

Sturm Environmental

Well Operator

HG Energy, LLC

Address

5260 Dupont Road

Parkersburg, WV 26101

Telephone

304-420-1119

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

Surface Owners W/ Water Sources Identified for Sampling/Analysis

SGE TOPO MAP \* Willie King 1090 Clover Road Spencer WV 25274

\* Richard Fisher 4513 Clay Road Spencer WW 25276

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WV Department of Environmental Protection4/03/2015 WW-9 Rev. 5/10

| Page of                           |   |
|-----------------------------------|---|
| API Number 47                     | _ |
| Operator's Well No. by Fisher 111 | _ |

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

| GENERAL  | L PERMIT FOR OIL AND GA   | S PIT WASTE DISCHARGE   |  |
|--|---|---|--|
| Operator Name HG Energy, LLC   |   | OP Code 49449794  | 8  |
| Watershed Rush Run   |   |   |  |
| Elevation 1038'  | County_Roane  | District Smithfield   | <u> </u>   |
| Description of anticipated Pit Waste: Flu  | ids encountered while drilling st   | nallow well   |  |
| Do you anticipate using more than 5,000  |   |   | No _x  |
| Will a synthetic liner be used in the pit?   |   |   |  |
| Proposed Disposal Method For Treated P   | it Wastes:  |   |  |
| Land Applicati Underground I   | njection ( UIC Permit Number  | 25-561  |  |
| Reuse (at API  | Number  |   | )  |
|  | sal (Supply form WW-9 for dis<br>n  | sposal location)  |  |
| Drilling medium anticipated for this well:   | ? Air, freshwater, oil based, etc   | Air, Fresh Water  |  |
| -If oil based, what type? Synthe   | tic, petroleum, etc. NA   |   | - · · · · · · · · · · · · · · · · · · ·  |
| Additives to be used? Water, Soap, KC  | <u> </u>  |   |  |
| Will closed loop system be used ? No Drill cuttings disposal method? Leave in  | nit landfill computed offsite a   | to I eave in pit  |  |
| -If left in pit and plan to solidify -Landfill or offsite name/permit  | what medium will be used? C   | ement, lime, sawdust Native so  | I, cement, lime  |
| I certify that I understand and agon August I, 2005, by the Office of Oil a provisions of the permit are enforceable law or regulation can lead to enforcement I certify under penalty of law application form and all attachments the obtaining the information, I believe that penalties for submitting false information.  Company Official Signature | nd Gas of the West Virginia Do<br>by law. Violations of any tern<br>t action.<br>that I have personally examin-<br>hereto and that, based on my<br>at the information is true, accu | epartment of Environmental Proton or condition of the general posts and am familiar with the invinquiry of those individuals in the proton of | formation submitted on this immediately responsible for  |
| Company Official (Typed Name) Diane  | White   |   | FEB 0 5 2315   |
| Company Official Title Agent   |   |   | NV Denarman: △l  |
|  |   |   | i <mark>mnmອນເລ -</mark> ໄປເອດໄທດາ   |
| Subscribed and sworn before me this  | 13th day of January   | , 20 15   |  |
| My commission expires OH . Y   | Solony 3016   |   | OFFICIAL SEAL NOTARY PUBLIC ATE OF WEST VIRGINIA 5. DIANNE DULANEY P. O. Box 5519 nna, West Virginia 26105 |
| , commission empires — -   |   |   | mie, vvest Virginia 20100  |

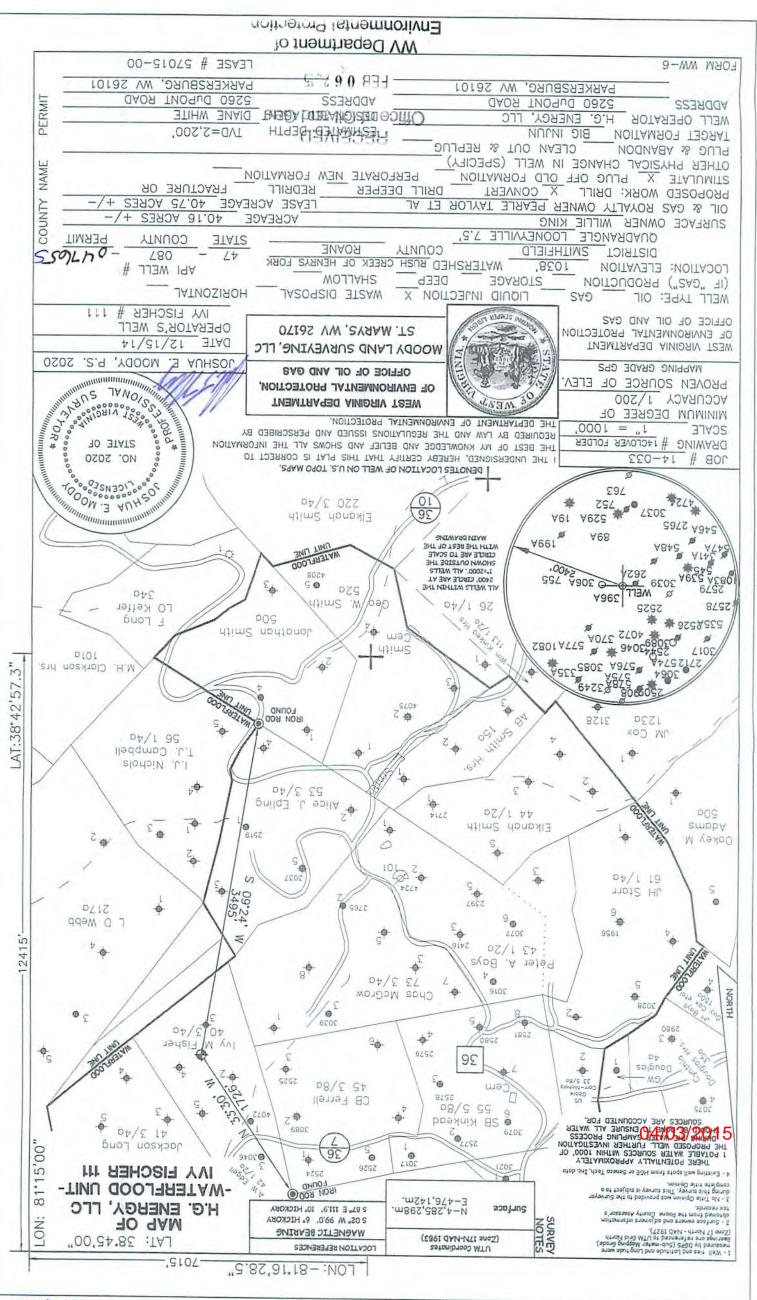
OPFICHAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
S. DIANNE DULANEY
P. O. Box 5519
Vigner West Vigner 26105
My Commession Ecolors Cut. 4, 2016

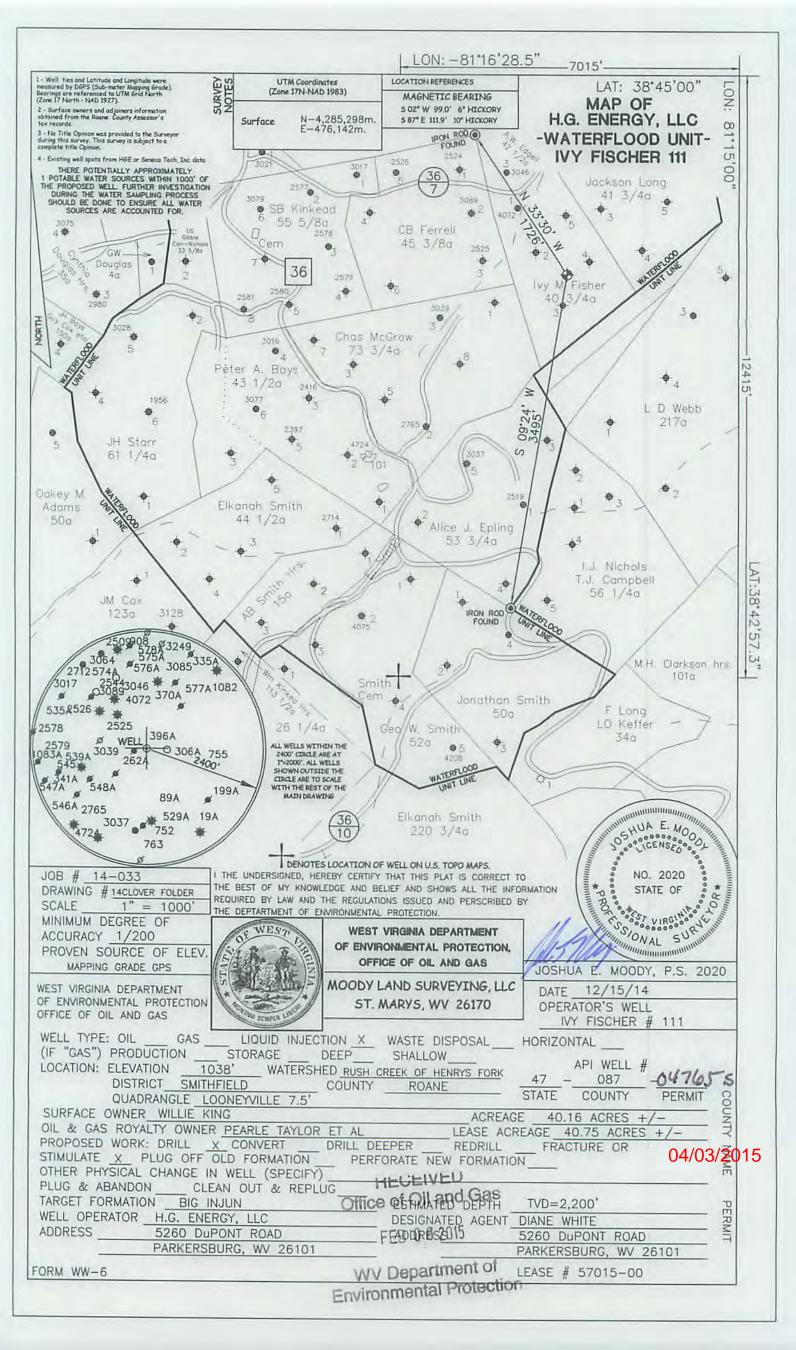
|                               |                              | LEGEND                       |  |
|-------------------------------|------------------------------|------------------------------|--|
| Property Boundary             | -                            | Diversion League 11          |  |
| Road = = = =                  | =====                        | Spring -                     |  |
| Existing Fence — X            |                              | Wet Spot                     |  |
| Planned Fence /               | _/_/_                        | Drain Pipe with size in inch | nes (2)  |
| Stream                        | ·                            | ₩ Waterway                   | ·  |
| Open Ditch                    | ·                            | Cross Drain                  |  |
| Rock ESSE                     | -                            | Artificial Filter Strip      | *****  |
| North N                       |                              | Pit: cut walls               | •  |
| Buildings                     |                              | Pit: compacted fill walls    | The same   |
| Water wells                   | 6                            | Area for Land Application    | of Pit Waste   |
| Drill site                    |                              | (                            |  |
| Proposed Revegetation Treat   | ment: Acres Disturbed        | 1.2 acres                    | a nU   |
|                               | 2                            | Prevegetation 6.5            | 1 ргі  |
| Lime                          | Tons/acre or to correct      | ю рн                         |  |
| Fertilizer (10-20-20          | or equivalent) 500           | lbs/acre (500 lbs minimum)   |  |
| Mulch Straw                   | 2                            | Tons/acre                    |  |
|                               |                              | Seed Mixtures                |  |
|                               |                              | bed Mixtures                 |  |
| Are<br>Seed Type              | ea I<br>lbs/acre             |                              | Area II  |
| Tall Fescue                   | 40                           | Seed Type Tall Fescue        | lbs/acre   |
|                               |                              | -                            | 40   |
| _adino Clover                 | 5                            | Ladino Clover                | 5  |
| Sediment control to           | o be in place at all         | times.                       |  |
|                               | - III proide de din          |                              |  |
| Attach:                       |                              |                              |  |
| Drawing(s) of road, location, | pit and proposed area for la |                              | RECEIVED   |
| hotocopied section of involve | ved 7.5' topographic sheet.  | Oi                           | ffice of Oil and Gas   |
|                               |                              |                              | FEB 0 3 2015   |
| 18                            |                              |                              | 11-12 (1) (1)  |
| Plan Approved by:             |                              | / W                          | VV Department of   |
| Comments:                     |                              |                              | ronmental Protection   |
|                               |                              |                              | The state of the s |
|                               |                              | 1 (                          |  |
| 1 21007                       | OL                           | 1/5//10                      |  |
| Title: Spect                  | 1                            | Date: 120                    |  |
| ield Reviewed?                | ) Yes                        | ) No                         |  |

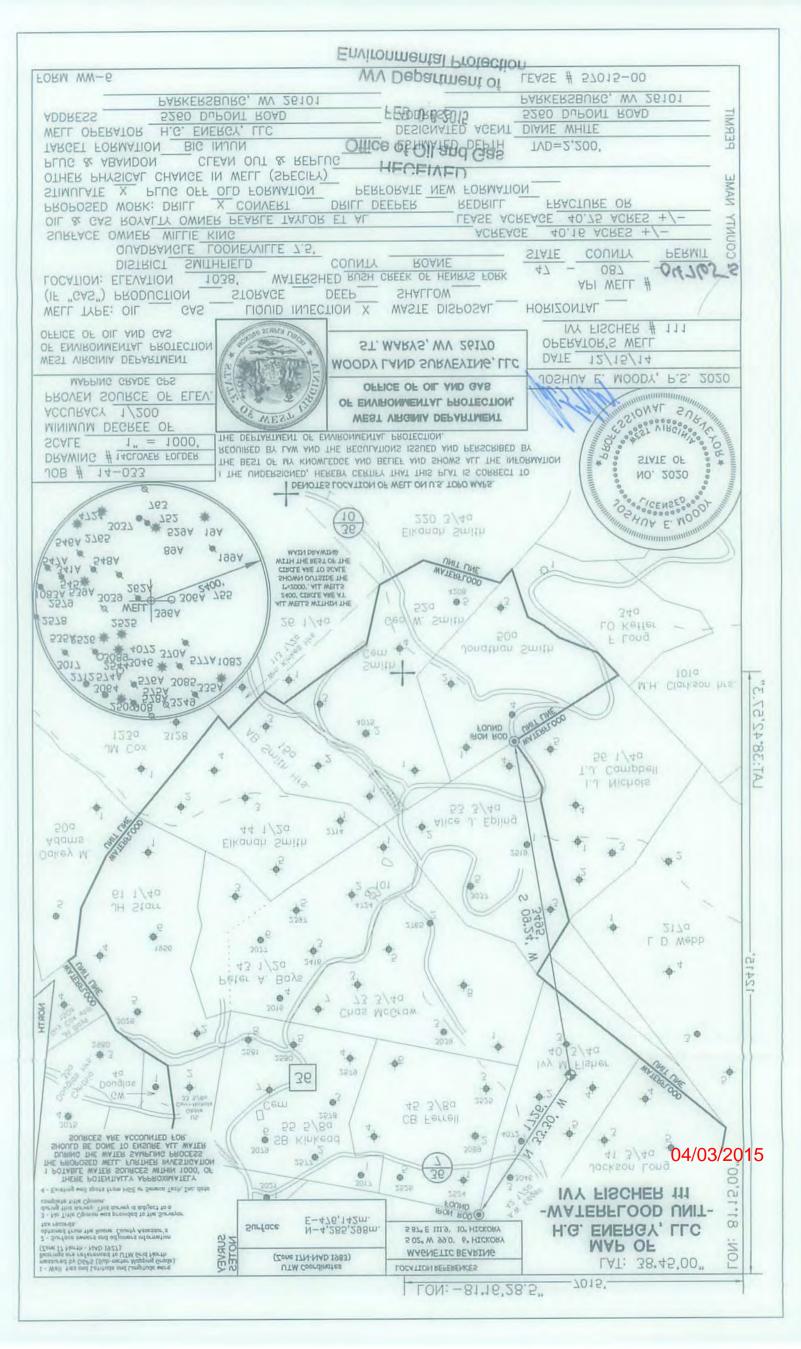
Location on

Reclamation Plan For:

8704765









### HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

CH# 249800

January 13, 2015

Mr. Jeff McLaughlin WVDEP Division of Oil & Gas 601 57th Street Charleston, West Virginia 25304

RE: Ivy Fisher No. 111

> Smithfield District, Roane County West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-3A, WW-3B, WW-9, WW-3(B1), mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a permit to drill an injection well. Also enclosed is our check in the amount of \$650.00 to cover the associated permit fees.

Very truly yours,

Diane White

Diane C. White

Enclosures

Richard Fisher - Certified cc:

> Willie King - Certified Ed Gainer - Inspector

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WV Department of Environmental Protection 04/03/2015