

#### 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 29, 2016

#### WELL WORK PERMIT

#### Vertical Well

This permit, API Well Number: 47-4303565, 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: J. M. GRASS 232

Farm Name: EGNOR, KENNETH SR.

API Well Number: 47-4303565
Permit Type: Vertical Well

Date Issued: 03/29/2016

### 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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

#### **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, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

| 1) Well Operato                      | r: HG E         | Energy,    | LLC                             | 494497948             | Lincoln          | Duval                  | Griffithsville 7.5'     |
|--------------------------------------|-----------------|------------|---------------------------------|-----------------------|------------------|------------------------|-------------------------|
|                                      |                 |            |                                 | Operator ID           | County           | District               | Quadrangle              |
| 2) Operator's W                      | /ell Numb       | oer: JN    | // Grass 232                    |                       | 3) Elevation:    | 984'                   | -                       |
| 4) Well Type: (a                     | a) Oil <u>X</u> | or Ga      | as                              |                       |                  |                        |                         |
| (b                                   | ) If Gas:       | Produ      | ıction / Un                     | derground Sto         | orage            |                        |                         |
|                                      |                 | Dee        | p/ \$                           | Shallow X             |                  |                        |                         |
| , , ,                                | fresh wa        | ter strata | Berea Feet a depths: 364' 1214' |                       |                  |                        |                         |
| 9) Approximate                       | coal sea        | m depth    | s: 414'                         |                       |                  |                        |                         |
| 10) Approximate                      | e void de       | pths,(co   | al, Karst, other):              | NA                    |                  |                        |                         |
| 11) Does land o                      | contain co      | al seam    | s tributary to ac               | tive mine? N          | IA               |                        |                         |
| 12) Describe pro<br>Drill and stimul |                 |            |                                 |                       |                  |                        |                         |
|                                      |                 |            |                                 |                       |                  | -                      |                         |
| 13)<br>TYPE S                        | PECIFIC         | 4.40.00    | ASING AND TU                    | BING PROGR<br>FOOTAGE | RAM<br>INTERVALS | CEME!                  | 2.24.16<br>NT           |
| THE G                                | Size            | Grade      | Weight per ft                   | For Drilling          | Left in Well     | Fill -up (Cu.          |                         |
| Conductor                            |                 |            |                                 |                       |                  |                        |                         |
| Fresh Water                          | 7"              | LS         | 17#                             | 514'                  | 514'             | Cement to              | Surfac                  |
| Coal                                 |                 |            |                                 |                       |                  |                        |                         |
| Intermediate                         |                 |            |                                 |                       |                  |                        |                         |
| Production                           | 4 1/2"          | J-55       | 10.5#                           | 2599'                 | 2599'            | 150 s                  | sks                     |
| Tubing                               |                 |            |                                 |                       |                  | REC                    | EIVED                   |
| Liners                               |                 |            |                                 |                       |                  | Office of C            | Dil and Gas             |
| Packers: Kind                        | :               |            |                                 |                       |                  | MAR O                  | 9 2016                  |
| Size<br>Dept                         | s:<br>ths Set   | *          |                                 |                       | E                | WV Depa<br>nvironmenta | 4/01/2016<br>Protection |

WW-2B1 (5-12)

| Well No. | JM Grass | 232 |
|----------|----------|-----|
|----------|----------|-----|

#### 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.

- See Attached -

RECEIVED Office of Oil and Gas

MAR 0 9 2016

WV Department/091/2016 **Environmental Protection** 

WW-2B1 Well No. J M Grass 232

Page 2 - Continued

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

#### NOTICE TO SURFACE OWNERS

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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 underlining which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

#### Surface Owners Identified With Water Sources to be Sampled and Tested:

- \* John & Debra Hubbard 21 Ind Drive Yawkey, WV 25573
- Merri & Bernie Mallory
   Ind Drive
   Yawkey, WV 25573
- \* Kenneth Egnor, Sr. 533 Laurel Fork Sumerco, WV 25567

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Office of Oil and Gas

MAR 0 9 2016

WV Departmental Protection

#### INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan:
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

\*\* See Attached Sheet \*\*

#### Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirm a permits/approvals that may be necessary and further affirm a permits/approvals that may be necessary and further affirm a permits/approvals that may be necessary and further affirm a permits/approvals that may be necessary and further affirm a permits/approvals that may be necessary and further affirm a permits/approvals that may be necessary and further affirm a permits/approvals that may be necessary and further affirm a permits/approvals that may be necessary and further affirm a permits/approvals that may be necessary and further affirm a permits/approvals that may be necessary and further affirm a permits/approvals that may be necessary and further affirm a permit permits/approvals should be ac quired from the appr opriate aut hority before the later of activity is initiated.

Well Operator:

Diane White HG Energy, LLC

MAR 0 9 2016

By:Its: Diane White, Agent WV Department of Environmental Protection 16

| Operator's Well No. | J | M | Grass | 232 |
|---------------------|---|---|-------|-----|
|---------------------|---|---|-------|-----|

## INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page I of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that --

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

| Grantor, Lessor, etc. | Grantee, Lessee, etc.  | Royalty | Book/Page |
|-----------------------|------------------------|---------|-----------|
| J M Grass, et al      | South Penn Oil Company | 1/8     | 36/164    |

Merger and Conveyance dated July 3, 1963, from South Penn Oil Company to Penzoil Company, Kanawha County, Book 153, Page 35,

Assignment, Conveyance and Bill of Sale dated December 28, 1998, from Pennzoil Company to Pennz Energy Exploration and Production, Wetzel County, Book 12, Page 177.

Certificate of Merger filed with the WV Secretary of State, December 31, 1999, whereby Pennz Energy Exploration and Production, successor in interest to; to Penzoil Company, merged with Devon Energy Production Company, LP, Wetzel County, Book 12, Page 278.

Deed, Assignment and Bill of Sale dated June 1, 2000, from Devon Energy Production Company, LP to East Resources, Inc., recorded in Wetzel County, Book 370, Page 580.

Assignment, Conveyance and Bill of Sale, dated January 1, 2011, from East Resources, Inc., to HG Energy, LLC, Wetzel County, Book 118A, Page 253.

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drillingerations for the subject well in the location shown on the plat, including the use of access roads, pipelines and utilities.

## Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby ackowledges the possibility of the need for permits and/or approvals from local, state or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

WV Division of Water and Waste Management WV Division of Natural Resources WV Division of Highways U.S. Army Corps of Engineers US Fish and Wildlife Service County Floodplain Coordinator

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MAR 0 9 2016

By: Diane C. White Diane V. Diane Trope 1/2016
Its: Accountant Environmental Protection

WW-2A (Rev. 6-14)

February 17, 2016 1). Date:

2.) Operator's Well Number

JM Grass 232

State

County

Permit

3.) API Well No .:

47-

Lincoln

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

| 4)    | Surface Owi       | ner(s) to be served:  | 5) (a) Coal Oper          | rator  |
|-------|-------------------|---|---------------------------|--|
| .,    | (a) Name          | Kenneth Egnor Sr.   | Name                      | NA   |
|       | Address           | 533 Laurel Fork   | Address                   |  |
|       | 7 taa             | Sumerco, WV 25567   | _ ///                     |  |
|       | (b) Nama          |   | - (b) Coal Ou             | ner(s) with Declaration  |
|       | (b) Name          | Lyle & Shirley Adkins   |                           | Professional Contract |
|       | Address           | 1035 Garden Heights Drive   | _ Name                    | NA   |
|       |                   | South Charleston, WV 25309  | Address                   |  |
|       | (c) Name          | HG Energy, LLC  | Name                      |  |
|       | Address           | 5260 Dupont Road  | Address                   |  |
|       | Addi Coo          | Parkersburg, WV 26101   | _ /\ddress                |  |
| 6) 1  | nanaatar          |   | - (a) Coal Los            | asso with Declaration  |
|       | nspector          | Jeremy James  |                           | ssee with Declaration  |
|       | Address           | PO Box 36   | _ Name                    | NA   |
|       |                   | Clendenin, WV 25045   | Address                   |  |
| Y     | Telephone         | 304-951-2596  |                           |  |
|       |                   | TO THE PERSONS NAM  |                           |  |
|       | Included is th    | e lease or leases or other continuing                             | contract or contract      | cts by which I hold the right to extract oil and gas   |
| OR    |                   |   |                           |  |
|       |                   | 옷이 그렇게 많아 보면 보다 보다 하나 아내는 이번 살아서 얼마나 나는 사람들이 되었다.                 |                           | 8(d) of the Code of West Virginia (see page 2)   |
|       |                   |   |                           | ia Code I have served copies of this notice and  |
| app   | lication, a loca  |   |                           | gh on the above named parties by:  |
|       | 1.0               | Personal Service (Affidavit attac                                 |                           |  |
|       | _                 | Certified Mail (Postmarked posta                                  |                           |  |
|       |                   | Publication (Notice of Publication                                |                           |  |
|       |                   |   | 35 CSR 4, and I           | agree to the terms and conditions of any permit  |
| issu  | ed under this     |   |                           |  |
|       |                   |   |                           | nd am familiar with the information submitted on   |
|       |                   |   |                           | of those individuals immediately responsible for   |
| obta  |                   | rmation, I believe that the information                           |                           |  |
| lman  |                   | re that there are significant penalties                           | for submitting fais       | e information, including the possibility of fine and   |
| mp    | risonment.        | Wall Operator   | HC Energy II              | C  |
| 0     |                   |   | HG Energy, LL Diane White | Diane White  |
| Ĭ.    |                   | OFFICIAL SEAL =   |                           | Diara unue   |
| ≣,    | Notary I          |   | Agent 5260 Dupont F       | ) and  |
| =(    |                   | 499 Dale Drive  |                           |  |
|       | My Comp           | neral Wells, WV 26150<br>nission Expires June 23, 2020 Telephone: | Parkersburg, V            | VV 20101   |
| 5     | шинини            |   | 304-420-1119              | FIFT FILTER  |
|       |                   |   | dwhite@hgene              | Offize16f Oil and C-   |
| Sub   | scribed and s     | worn before me this <u>17th</u> day of                            | February                  | , "29 lor Oil and Gas  |
|       | July Ri           | tchie   |                           | Notary PublicaR 0 9 2016   |
| Му    | Commission E      | xpires June 25, 2020  |                           | 2010   |
|       | nd Gas Privacy N  | Notice  |                           | WV Department of   |
| The ( | Office of Oil and | Gas processes your personal information,                          | such as name, addres      | is and phone number neor period of purifically actions.  |

Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal formation and the course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal formation and the course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

| WW-9   |
|--------|
| (5/13) |

| P                   | age          | of_ | 43 ( | 3 3 | 6 | 5 |
|---------------------|--------------|-----|------|-----|---|---|
| API Number 47 -     | 4            |     |      |     |   |   |
| Operator's Well No. | JM Grass 232 |     |      |     |   |   |

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

### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

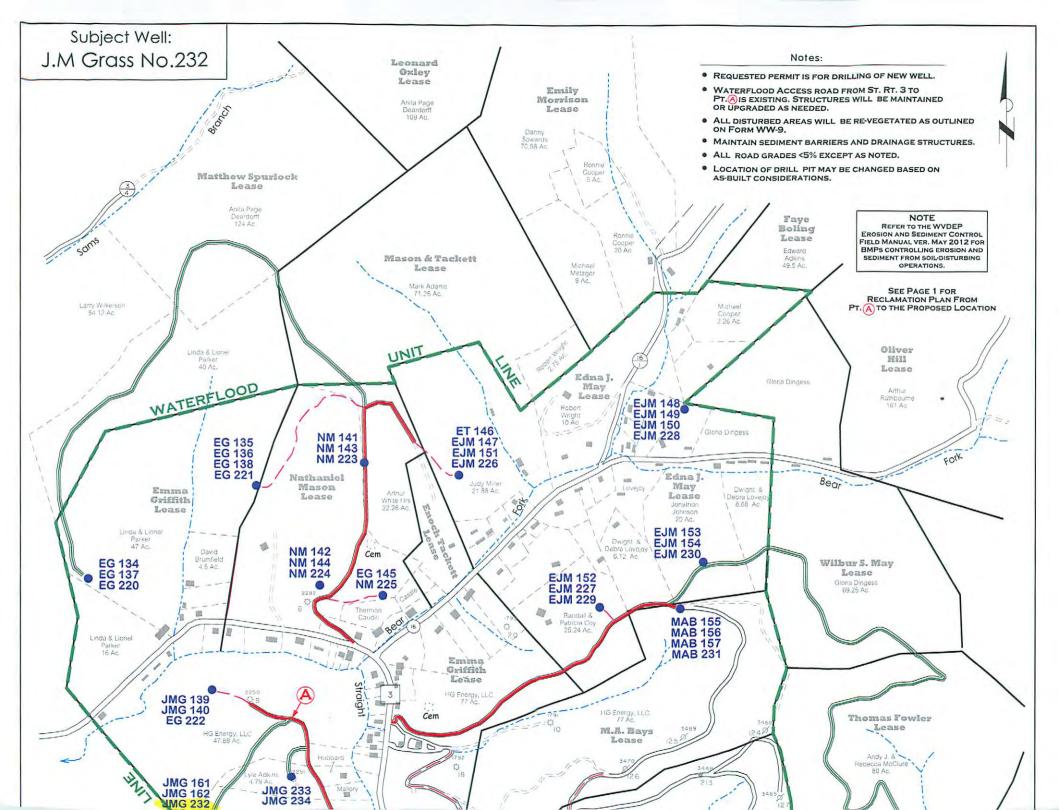
| Operator Name HG Energy, L   | LC   | OP Code 494497948  |
|--|--|--|
| Watershed (HUC 10) Straight  | Fork (   | Quadrangle Griffithsville 7.5'   |
| Elevation 984  | County_Lincoln   | District Duval   |
| Do you anticipate using more th  | han 5,000 bbls of water to complete th   | e proposed well work? Yes No _X  |
|  | ngs? Yes X No  |  |
|  | inticipated pit waste: Fluids encount  | ered while drilling subject well   |
| Will a synthetic liner b   | be used in the pit? Yes X No   | If so, what ml.? 30 mil  |
|  | ethod For Treated Pit Wastes:  |  |
| Undo   | se (at API Number  |  |
| Will closed loop system be used  |  |  |
|  |  | etc. Air, Fresh Water  |
|  |  |  |
| Additives to be used in drilling   |  |  |
|  |  | Logvo in pit   |
| 7  |  | e, etc. Leave in pit   |
|  |  | (cement, lime, sawdust) Native soil, cement, lime  |
| -Landfill or offsite nar   | ne/permit number?  |  |
| on August 1, 2005, by the Office<br>provisions of the permit are en<br>law or regulation can lead to en<br>I certify under penalty<br>application form and all attace<br>obtaining the information, I be | te of Oil and Gas of the West Virginia forceable by law. Violations of any to forcement action.  The sy of law that I have personally example the start of the st | ons of the GENERAL WATER POLLUTION PERMIT issued Department of Environmental Protection. I understand that the term or condition of the general permit and/or other applicable sined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for courate, and complete. I am aware that there are significant fine or imprisonment. |
| Company Official Signature   | Diane White  | OFFICIAL SEAL  |
| Company Official (Typed Nam  | D: 148.9   | Notary Public, State Of West Virginia  TYLER RITCHIE  499 Dale Drive   |
| Company Official Title Ager  | nt   | Thirtera Welts, MV 26150   |
| Subscribed and sworn before m  | e this17thday ofFebruar  |  |
| Sylw Ritchie   |  | Notary Public Department of Environmental F04/01/2016  |
| My commission expires 30   | ine 23, 2020   | - In nounted tal Hose Place  |

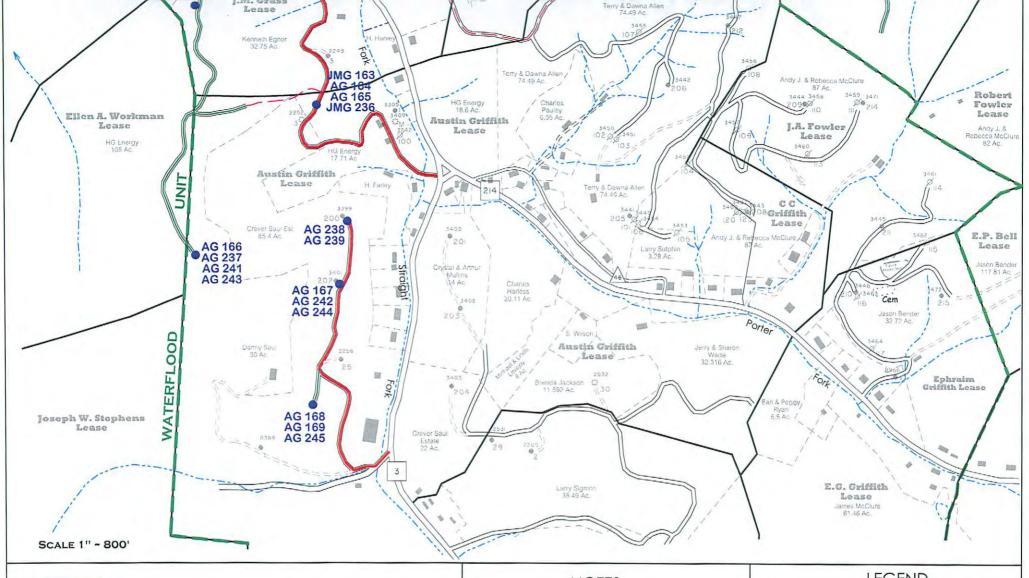
| D. J.D. J. Turan  | turanti Aanaa Diaturi                     | 1.8 acre                        | S Preventation n                        | Н        |
|---|---|---------------------------------|---|----------|
| Proposed Revegetation Trea  |   | ped                             | rievegetation p                         | п        |
| Lime  | Tons/acre or to                           | correct to pH                   |   |          |
| Fertilizer (10-20-20  | or equivalent)                            | 500 lbs/acre                    | (500 lbs minimum)                       |          |
| Mulch Straw   |   | 2 Tons/acre                     |   |          |
|   |   | Seed Mix                        | tures                                   |          |
| Ar  | rea I                                     |                                 | Aı                                      | rea II   |
| Seed Type   | lbs/acre                                  |                                 | Seed Type                               | lbs/acre |
| Tall Fescue   | 40  |                                 | all Fescue                              | 40       |
| Ladino Clover   | 5   | L                               | adino Clover                            | 5        |
| ** Sediment Contro  | -1 \A(iii D - 1 - F                       |                                 | : <del>**</del>                         |          |
| Sealment Contr  | oi wiii be in F                           | Place At All 1                  | imes ""                                 |          |
| Sealment Contro   | oi vviii Be in F                          | Place At All 1                  | imes ""                                 |          |
| Attach:   |   |                                 | \ A.I                                   |          |
| Attach:<br>Drawing(s) of road, location                           | pit and proposed are                      | ea for land application         | \ A.I                                   |          |
| Attach:   | pit and proposed are                      | ea for land application         | \ A.I                                   |          |
| Attach:<br>Drawing(s) of road, location                           | pit and proposed are                      | ea for land application         | \ A.I                                   |          |
| Attach:<br>Drawing(s) of road, location                           | pit and proposed are                      | ea for land application         | \ A.I                                   |          |
| Attach: Drawing(s) of road, location Photocopied section of invol | pit and proposed are                      | ea for land application         | \ A.I                                   |          |
| Attach: Drawing(s) of road, location Photocopied section of invol | pit and proposed are                      | ea for land application         | \ A.I                                   |          |
| Attach: Drawing(s) of road, location Photocopied section of invol | pit and proposed are                      | ea for land application         | \ A.I \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |          |
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| Attach: Drawing(s) of road, location Photocopied section of invol | pit and proposed are                      | ea for land application         | \ A.I \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |          |
| Attach: Drawing(s) of road, location Photocopied section of invol | pit and proposed are                      | ea for land application         | \ A.I \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |          |
| Attach: Drawing(s) of road, location Photocopied section of invol | pit and proposed are ved 7.5' topographic | ea for land applications sheet. | \ A.I \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |          |

RECEIVED
Office of Oil and Gas

MAR 0 9 2016

WV Department/01/2016 Environmental Protection







#### GRIIFTHSVILLE WATERFLOOD

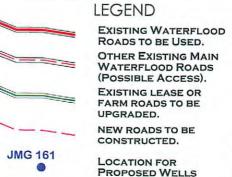
Lincoln County, W.Va.

RECLAMATION PLAN
SHOWING ROAD SYSTEMS
TO BE USED FOR 2016
DRILLING PROGRAM
(NORTH)

PAGE 2

#### NOTES

- 1. REFER TO THE WVDEP EROSION AND SEDIMENTATION CONTROL MANUAL (VER. MAY 20, 2013) FOR BMP'S CONTROLLING EROSION AND SEDIMENTATION FROM ALL SOIL-DISTURBING OPERATIONS.
- 2. SEE PAGE ONE OF RECLAMATION PLAN FOR DETAILS OF NEW ROAD CONSTRUCTION AND ROAD UPGRADES FROM POINT A TO DRILL SITE LOCATION.
- 3. EXISTING WATERFLOOD ACCESS ROADS WILL BE MAINTAINED IN PRESENT CONDITION. THESE ROADS WERE CONSTRUCTED UNDER CONDITIONS SET FORTH IN VARIOUS DRILLING PERMITS ISSUED BY WVDEP-OOG PRIOR TO 2015 (AS SHOWN). SEE PERMITS ON FILE FOR MORE DETAIL.



POTENTIAL WATER

SUPPLY SOURCE TO BE

SAMPLED (LOC. APPROX.)

FEBRUARY 10, 2016

