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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Tuesday, February 13, 2018  
WELL WORK PERMIT  
Vertical / New Drill

HG ENERGY, LLC  
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for ROBERT FOWLER NO. 506  
47-043-03581-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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- 0450.

James A. Martin  
Chief

Operator's Well Number: ROBERT FOWLER NO. 506  
Farm Name: ANDY & REBECCA MCCLURE  
U.S. WELL NUMBER: 47-043-03581-00-00  
Vertical / New Drill  
Date Issued: 2/13/2018

Promoting a healthy environment.

02/16/2018

## 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, 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](mailto:DEPOOGNotify@wv.gov) within 30 days of commencement of drilling.

FORM WW-3 (B)  
1/12



1) Date: 11/29/2017  
 2) Operator's Well No. Robert Fowler 506  
 3) API Well No.: 47 - Lincoln - s  
 State County Permit  
 4) UIC Permit No. UIC2R04302AP

**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 TYPE: Liquid Injection  / Gas Injection (not storage)  / Waste Disposal   
 6) LOCATION: Elevation: 870' Watershed: Porter Fork  
 District: Duval County Lincoln Quadrangle Griffithsville 7.5'  
 7) WELL OPERATOR: HG Energy, LLC 8) DESIGNATED AGENT Diane White  
 Address 5260 Dupont Road Address 5260 Dupont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101  
 9) OIL & GAS INSPECTOR TO BE NOTIFIED 10) DRILLING CONTRACTOR  
 Name Jeffery Smith Name To Be Determined Upon Approval of Permit  
 Address 5369 Big Tyler Road Address \_\_\_\_\_  
Cross Lanes, WV 25313  
 11) PROPOSED WELL WORK Drill  / Drill deeper  / Redrill  / Stimulate   
 Plug off old formation  / Perforate new formation  / Convert   
 Other physical change in well (specify) \_\_\_\_\_  
 12) GEOLOGIC TARGET FORMATION Berea Depth 2572 Feet (top) to 2593 Feet (bottom)  
 13) Estimated Depth of Completed Well, (or actual depth of existing well): 2723 TMD Feet  
 14) Approximate water strata depths: Fresh 100 Feet Salt 1050 Feet  
 15) Approximate coal seam depths: 417'  
 16) Is coal being mined in the area? Yes \_\_\_\_\_ No \_\_\_\_\_  
 17) Virgin reservoir pressure in target formation 1250 psig Source Estimated  
 18) Estimated reservoir fracture pressure 2650 psig (BHFP)  
 19) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour 25 BBL Bottom hole pressure 2400 psi  
 20) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES Fresh water, produced  
water, bactericides and other chemicals as needed to maintain water quality and improve oil recovery.  
 21) FILTERS (IF ANY) Cartridge filters and charcoal bed filters  
 22) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL \_\_\_\_\_

23) CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS |       |                |     |      | FOOTAGE INTERVALS |              | CEMENT FILL -UP OR SACKS (CU. FT.) | Office of Oil and Gas<br>RECEIVED<br>PACKERS<br>JAN 18 2018<br>WV Department of Environmental Protection |
|-----------------------|----------------|-------|----------------|-----|------|-------------------|--------------|------------------------------------|--|
|                       | Size           | Grade | Weight per ft. | New | Used | For Drilling      | Left In Well |                                    |  |
| Conductor             |                |       |                |     |      |                   |              |                                    | Kinds  |
| Fresh Water           | 7"             | LS    | 17#            | x   |      | 465'              | 465'         | CTS                                | Sizes  |
| Coal                  |                |       |                |     |      |                   |              |                                    | 2.375"   |
| Intermediate          |                |       |                |     |      |                   |              |                                    | Depths set   |
| Production            | 4 1/2"         | J-55  | 10.5#          | x   |      | 2700'             | 2700'        | 150                                | 2370'  |
| Tubing                | 2 3/8"         | J-55  | 4.6#           | x   |      | 2470'             | 2470'        |                                    | Perforations   |
| Liners                |                |       |                |     |      |                   |              |                                    | Top Bottom   |

24) APPLICANT'S OPERATING RIGHTS were acquired from J F Cork Heirs  
 by deed \_\_\_\_\_ / lease x / other contract \_\_\_\_\_ / dated 06/18/1904 of record in the  
Lincoln County Clerk's office in Lease Book 36 Page 96

02/16/2018



WW-2B1  
(5-12)

Well No. Robert Fowler 506

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 Lab  
Sampling Contractor Sturm Environmental Lab

Well Operator HG Energy, LLC  
Address 5260 Dupont Road  
Parkersburg, WV 26101  
Telephone 34-420-1119

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JAN 18 2018

WV Department of  
Environmental Protection

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.

\* No water sources within 1000 feet. There is a water (Andy and Becky McClure) which has been recently tested approximately 1200 feet from the proposed site.

02/16/2018

API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. Robert Fowler 506

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy, LLC OP Code 494497948

Watershed (HUC 10) Porter Fork Quadrangle Griffithsville 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: Fluids encountered while drilling ~~production~~ <sup>INJECTION</sup> well

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? 30 mil

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain No land application of fluids)

Will closed loop system be used? If so, describe: NA

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air, freshwater

-If oil based, what type? Synthetic, petroleum, etc. NA

Additives to be used in drilling medium? Water, soap, KCl

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Remove offsite to approved facility

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? \_\_\_\_\_

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Diane White  
Company Official (Typed Name) Diane White  
Company Official Title Agent

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JAN 18 2018  
WV Department of  
Environmental Protection

Subscribed and sworn before me this 1st day of December, 2017  
[Signature] Notary Public

My commission expires 11/2/2021



02/16/2018

HG Energy, LLC

Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Straw 2 Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

| Seed Type     | lbs/acre |
|---------------|----------|
| Tall Fescue   | 40       |
| Ladino Clover | 5        |

| Seed Type     | lbs/acre |
|---------------|----------|
| Tall Fescue   | 40       |
| Ladino Clover | 5        |

**\*\* Sediment Control Will Be In Place At All Times \*\***

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jeff Smith

Comments: All sediment control to be removed prior to release

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W.V. Department of  
Environmental Protection

Title: Oil & Gas Inspector Date: 1-2-18

Field Reviewed?  Yes  No

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
GROUNDWATER PROTECTION PLAN

Operator Name: HG Energy, LLC

Watershed (HUC 10): Porter Fork Quad: Griffithville 7.5'

Farm Name: Robert Fowler

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

NA - No land application of fluids

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

NA

- 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

NA

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JAN 18 2018

- 4. Summarize all activities at your facility that are already regulated for groundwater protection.

WV Department of  
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NA

- 5. Discuss any existing groundwater quality data for your facility or an adjacent property.



NA

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

NA

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

NA

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA

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JAN 18 2018  
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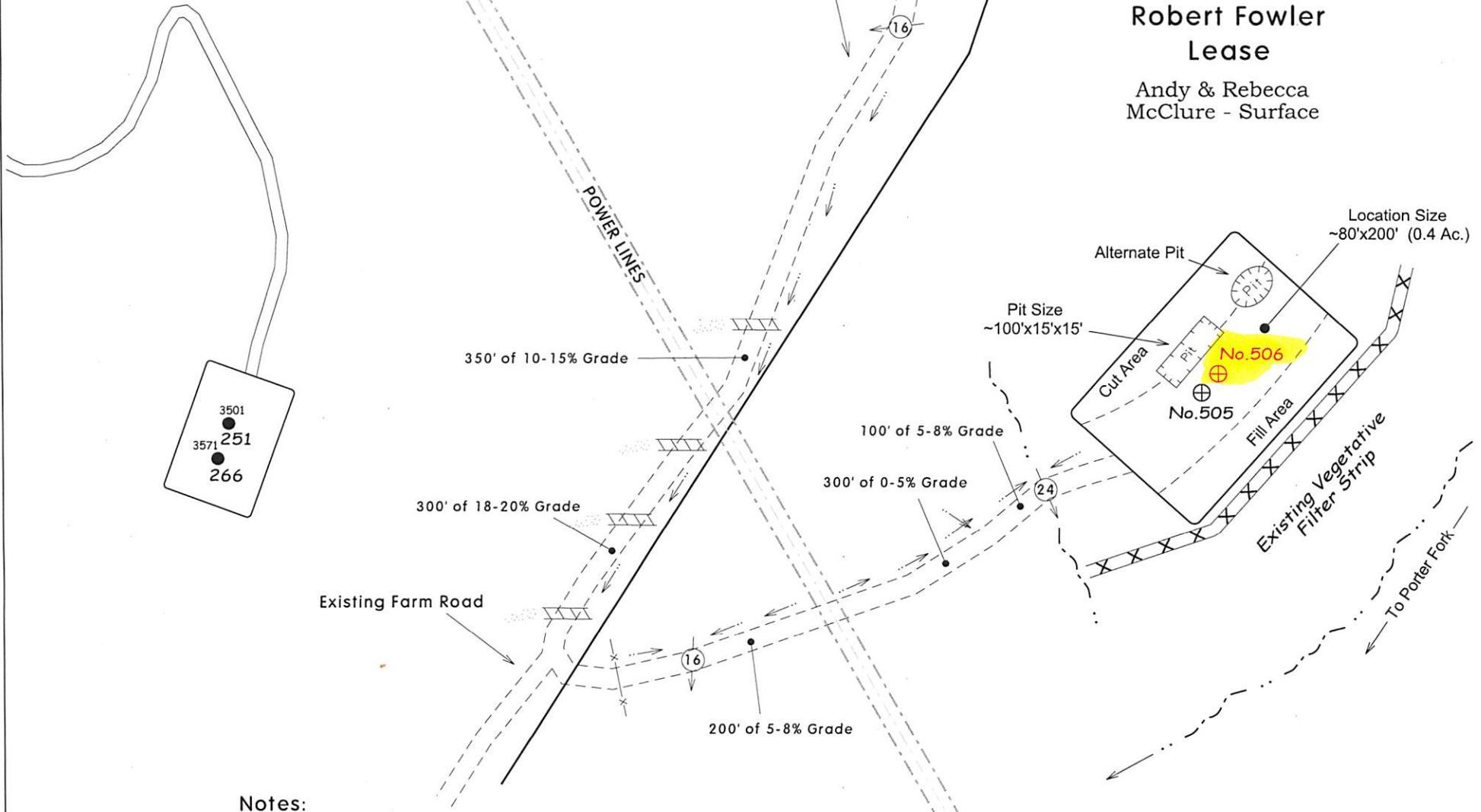
Signature: Diane White

Date: December 1, 2017



# Robert Fowler Lease

Andy & Rebecca McClure - Surface

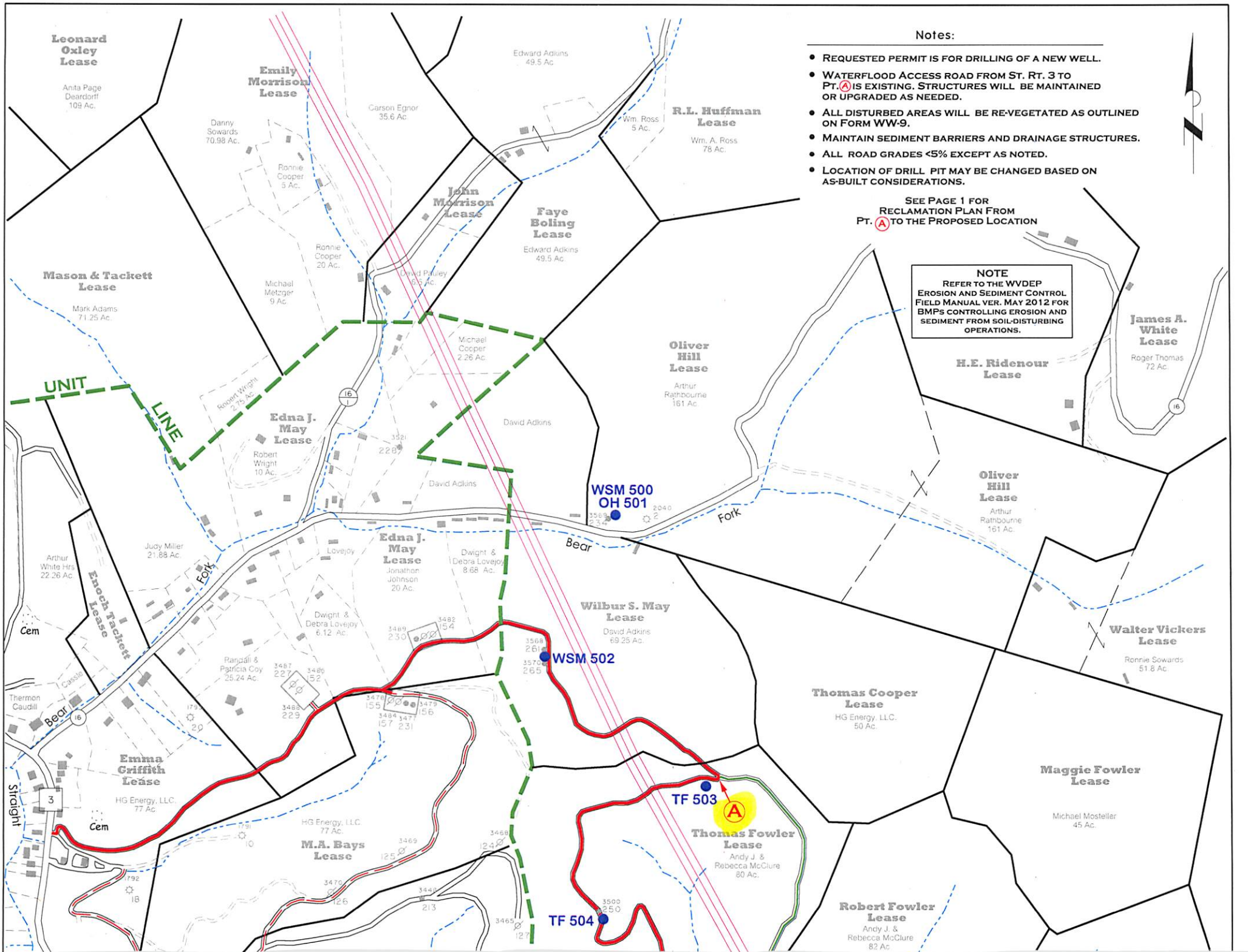


**Notes:**

- REQUESTED PERMIT IS FOR DRILLING OF NEW WELL.
- ALL ACCESS ROADS ARE EXISTING AND WILL BE UPGRADED TO WVDEP STANDARDS. NEW STRUCTURES WILL BE INSTALLED AS SHOWN.
- STOCKPILE TOPSOIL FOR RE-DRESSING LOCATION DURING RECLAMATION
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- ALL ROAD GRADES <5% EXCEPT AS NOTED.
- LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.
- STACK BRUSH BELOW DISTURBED AREAS FOR SEDIMENTATION CONTROL.
- DRAWING NOT TO SCALE.

**NOTE**  
 REFER TO THE WVDEP  
 EROSION AND SEDIMENT CONTROL  
 FIELD MANUAL VER. MAY 2012 FOR  
 BMPs CONTROLLING EROSION AND  
 SEDIMENT FROM SOIL-DISTURBING  
 OPERATIONS.

47043035815



**Notes:**

- REQUESTED PERMIT IS FOR DRILLING OF A NEW WELL.
- WATERFLOOD ACCESS ROAD FROM ST. RT. 3 TO PT. (A) IS EXISTING. STRUCTURES WILL BE MAINTAINED OR UPGRADED AS NEEDED.
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- ALL ROAD GRADES <5% EXCEPT AS NOTED.
- LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.

SEE PAGE 1 FOR RECLAMATION PLAN FROM PT. (A) TO THE PROPOSED LOCATION

**NOTE**  
REFER TO THE WV DEP EROSION AND SEDIMENT CONTROL FIELD MANUAL VER. MAY 2012 FOR BMPs CONTROLLING EROSION AND SEDIMENT FROM SOIL-DISTURBING OPERATIONS.

**Leonard Oxley Lease**  
Anita Page Deardorff  
109 Ac.

**Emily Morrison Lease**  
Danny Sowards  
70.98 Ac.

Edward Adkins  
49.5 Ac.

**R.L. Huffman Lease**  
Wm. A. Ross  
78 Ac.

Carson Egnor  
35.6 Ac.

**John Morrison Lease**  
David Parley  
6.8 Ac.

**Faye Boling Lease**  
Edward Adkins  
49.5 Ac.

**Mason & Tackett Lease**  
Mark Adams  
71.25 Ac.

Ronnie Cooper  
5 Ac.

Ronnie Cooper  
20 Ac.

Michael Cooper  
2.26 Ac.

**Oliver Hill Lease**  
Arthur Rathbourne  
161 Ac.

**H.E. Ridenour Lease**

**James A. White Lease**  
Roger Thomas  
72 Ac.

**UNIT LINE**

**Edna J. May Lease**  
Robert Wright  
10 Ac.

David Adkins

**WSM 500 OH 501**

**Oliver Hill Lease**  
Arthur Rathbourne  
161 Ac.

Arthur White Hrs  
22.26 Ac.

Judy Miller  
21.88 Ac.

**Edna J. May Lease**  
Jonathan Johnson  
20 Ac.

Dwight & Debra Lovejoy  
8.68 Ac.

**Wilbur S. May Lease**  
David Adkins  
69.25 Ac.

**Walter Vickers Lease**  
Ronnie Sowards  
51.8 Ac.

**WSM 502**

**Thomas Cooper Lease**  
HG Energy, LLC.  
50 Ac.

**Emma Griffith Lease**  
HG Energy, LLC.  
77 Ac.

**M.A. Bays Lease**  
HG Energy, LLC.  
77 Ac.

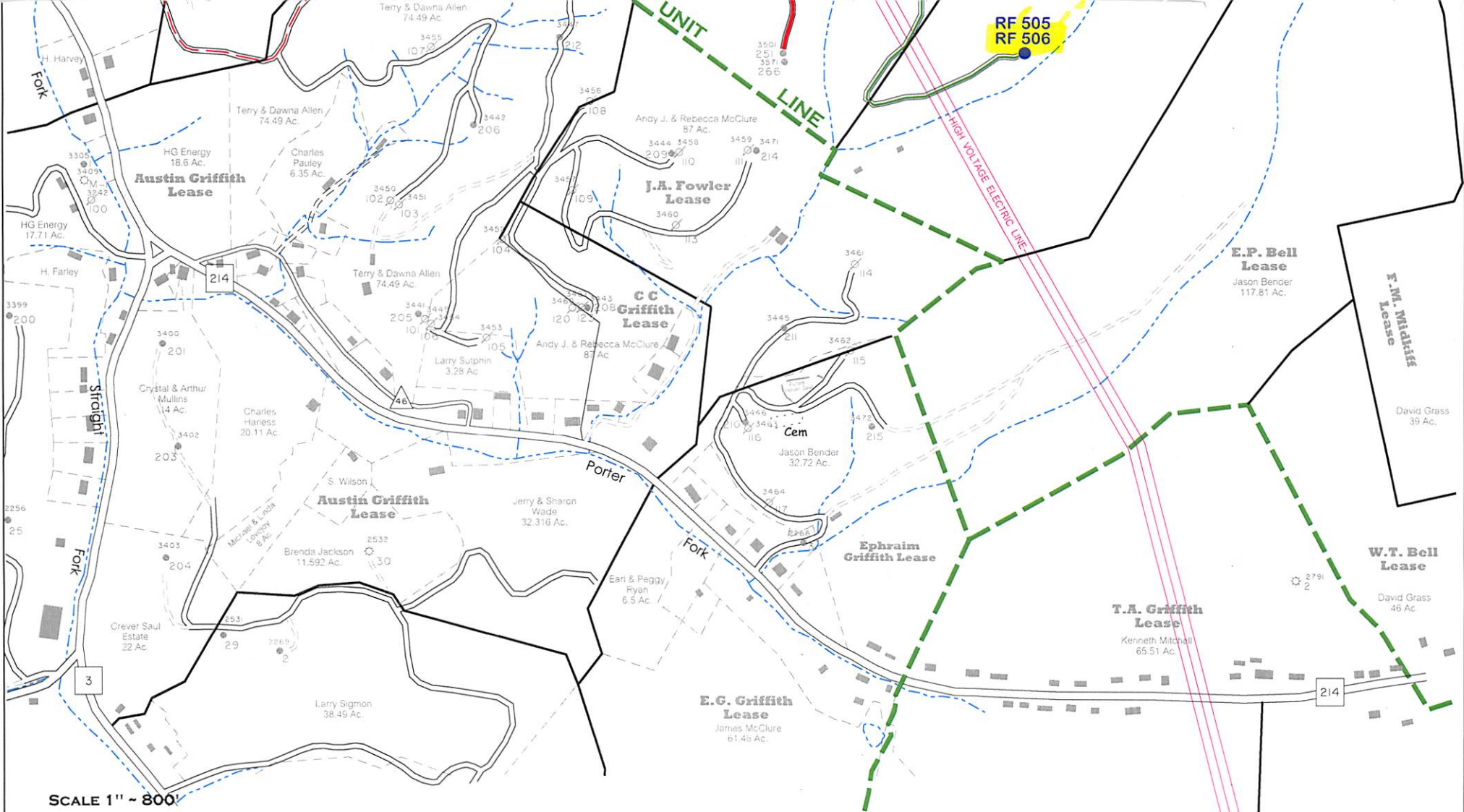
**Thomas Fowler Lease**  
Andy J. & Rebecca McClure  
80 Ac.

**Maggie Fowler Lease**  
Michael Mosteller  
45 Ac.

**TF 503 (A)**

**TF 504**

**Robert Fowler Lease**  
Andy J. & Rebecca McClure  
82 Ac.



RF 505  
RF 506

SCALE 1" = 800'



## GRIFFTHSVILLE WATERFLOOD

Lincoln County, W.Va.

### RECLAMATION PLAN SHOWING ROAD SYSTEMS TO BE USED FOR 2018 DRILLING PROGRAM

### 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.

### LEGEND

- EXISTING WATERFLOOD ROADS TO BE USED.
- OTHER EXISTING MAIN WATERFLOOD ROADS (POSSIBLE ACCESS).
- EXISTING LEASE OR FARM ROADS TO BE UPGRADED.
- NEW ROADS TO BE CONSTRUCTED.
- RF 505
- LOCATION FOR PROPOSED WELLS
- POTENTIAL WATER SUPPLY SOURCE TO BE SAMPLED (LOC. APPROX.)

47043035815

SUBJECT WELL  
Robert Fowler No.506



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Office of Oil and Gas

JAN 18 2018

WV Department of Environmental Protection

Section of  
Griffithsville 7.5' Quadrangle

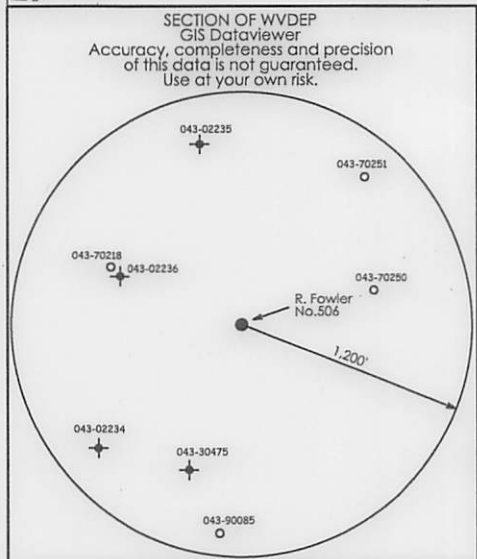
SCALE 1"=1000' 02/16/2018

Longitude = 81°56' 52.99"

9,015'

LATITUDE 38° 15' 00"

Bottom Hole Long.= 81°56' 52.8"



| Well Coordinates             |                              |
|------------------------------|------------------------------|
| UTM (NAD83) - Meters         |                              |
| Surface                      | Bottom Hole                  |
| N - 4,231,560<br>E - 417,034 | N - 4,231,324<br>E - 417,037 |

**Location References**  
(Magnetic Bearing - Slope Dist.)  
N 50° E 133' 16" Poplar  
S 47° W 83' 20" Poplar

**NOTES ON SURVEY**

- Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade). Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).
- Surface owner information obtained from the Lincoln County Assessor's tax records.

◆ - DENOTES A POSSIBLE WATER SUPPLY SOURCE LOCATED FROM CIRCA 2003 AERIAL PHOTOGRAPHY - NOT BY SURVEY. OTHER SOURCES MAY BE PRESENT.

⊕ - DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

FILE NO. \_\_\_\_\_

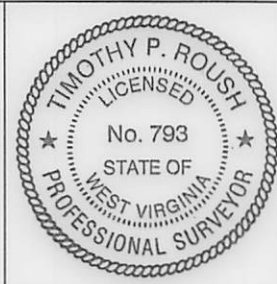
SCALE **1" = 1000'**

MINIMUM DEGREE OF ACCURACY **Sub-Meter**

PROVEN SOURCE OF ELEVATION **DGPS Survey**  
(Sub-Meter Mapping Grade)

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(SIGNED) *[Signature]*  
**TIMOTHY P. ROUSH PS 793**



WEST VIRGINIA  
Division of Environmental Protection  
Office of Oil and Gas  
601 57th Street  
Charleston, West Virginia 25301

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION  WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_

LOCATION: ELEVATION **870'** WATERSHED **Porter Fork**  
DISTRICT **Duval** COUNTY **Lincoln**  
QUADRANGLE **Griffithsville 7.5'**

SURFACE OWNER **Andy & Rebecca McClure** ACREAGE **82 Ac.**  
OIL & GAS ROYALTY OWNER **Eugene Armstrong et al.** LEASE ACREAGE **82 Ac.** LEASE NO. **108322-00**

PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) **NOTE: This well will be drilled directionally as shown on the plat above.**

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION **Berea** ESTIMATED DEPTH **TMD - 2,723'**

WELL OPERATOR **HG Energy LLC.** DESIGNATED AGENT **Diane White**  
ADDRESS **5260 DuPont Road** ADDRESS **5260 DuPont Road**  
**Parkersburg, WV 26101** **Parkersburg, WV 26101**

DATE **November 14, 2017**  
FARM **Robert Fowler No.506**  
API WELL NO. **47 - 043 - 035815**

**02/16/2018**

FORM IV-6