

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

November 04, 2013

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-10302655, 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: IRENE REILLY 16

Farm Name: WV PUBLIC LANDS CORP.

API Well Number: 47-10302655

Permit Type: Secondary Recovery Well

Date Issued: 11/04/2013

Promoting a healthy environment.

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 within 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. If well work related activities require the use of water obtained by withdrawals from waters of this state in amounts that exceed two hundred ten thousand gallons during any thirty day period, the operator is required to consult, and adhere to, the guidance provided by DEP's Water Withdrawal Guidance Tool prior to any water withdrawals.

WW-3B 10/07



| 1) Date | | J | uly 31, 20 | | |
|--------------------|-------|---|-------------|-----|--------|
| 2) Operator's Well | No. | I | rene Reilly | 16 | |
| 3) API Well No. | 47 | - | 103 | | 2655 |
| | State | | County | | Permit |
| 4) UIC Permit No. | | τ | JIC2R0950 | 1AP | |

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 | l Injection | X | _ | Gas I | njection | (not stora | age) | Wast | e Disposal | | _ | |
|--------|----------------------|---------|------------|--------------|---------|------------|--------------|-----------|------------|--------------------|----------------|------------|-----------------|----------|----------|
| 6) | LOCATION: | | Elevation | 1117 | | | | Wate | rshed | Fluha | rty Fork | | | | |
| | Di | istrict | | Green | | Co | unty | Wetze | | | Quadrangle | Ce | nterpoin | t 7.5' | |
| 7) | WELL OPERATO | DR. | HG Ener | ov IIC | | 494497 | 948 | 8) DES | RIGNATI | ED AGENT | . , | Mike Kirso | J. | | |
| ., | WEDD OF ENATE | J10. | | ont Road | | 434437 | 240 | O) DEC | JUNAII | DAGENI | | 260 Dupo | | | _ |
| | | | | ourg, WV | | | _ | | | | | arkersbu | | | |
| 9) | OIL & GAS INSP | PECTC | | | | | _ | 10) DI | TI I INC | CONTRAC | 0.87 | | -61 | | |
| 0) | | | Derek H | | JD. | | | 10) 11 | LILLING | | To Be Determ | ined Ilnon | Permit A | nnvoval | |
| | | | PO Box 8 | | | | | | | Address | | тей орыг | t crime ri | pprovar | |
| | | | | le, WV 26 | 178 | | | | | | | | | | - |
| 11) | PROPOSED WEI | I I WC | DIV. | Drill | | | D.:II | Deenen | | Daduit | | Ctimulata | | _ | |
| 11) | PROPOSED WEI | טוא אונ | JKK: | | | old Forma | | Deeper | Perforate | Redril New Forn | | Stimulate | Conver | + | X |
| | | | | | | | e in Well (| | CITOTAG | Tiew Polli | - | | Conver | - | 74 |
| 12) | Geological target | forma | tion | | Gordo | - | | Depth | | 2,947 | Ft. (Top) to | | 2,966 | Ft. (B | ottom) |
| 13) | Estimated depth | of com | pleted we | ell (or actu | al dept | th of exis | ting well) | _ | | 3170' | | t. | | -10.11 | |
| 14) | Approximate wat | er stra | ata depths | s: | Fresh | | 40 | 0 | Ft. | | Salt | 1,41 | 15 | Ft. | |
| 15) | Approximate coal | l seam | depths: | | | | 840 | | Ft. | | | | | | pr |
| 16) | Is coal being mine | ed in t | he area? | | | 7 | es | | X | No | | | | | 8- |
| 17) | Virgin reservoir p | oressu | re in targ | et formati | on: | | 6 | 0 | | psig. | Source | | Estima | ted | |
| 18) | Estimated reserve | oir fra | cture pre | ssure: | | | 120 | 0 | | psig. | _ | | | | |
| 19) | MAXIMUM PROI | POSE | D INJEC! | LION Obl | ERATIO | ONS. | Volume p | er hour | 25 hhl/l | w | Bottom Hole | Proceima | | 2400 ps | |
| | | | | | | | | - | | _ | | | | | |
| 20) | DETAILED IDEN | | | | | | | | | DDITIVES | Fresh wa | ter, produ | ced wat | er, bact | ericides |
| 21) | FILTERS (IF AN | Y) | | Cartridge | filters | and/or c | oal bed filt | ers | | | | | | | |
| 22) | SPECIFICATION | | CATHOL | | | | | | NI CON | rpot. | | | | | |
| 44) | Brecification | TOR | CATHOL | nc rkor | ECITO | IN AND C | THER CC | nnosi | IN COIN. | IROL | | | | | |
| 23) | CASING AND TU | JBING | PROGR | AM | | | | | | | | | | | _ |
| 0.10 | nua on | | appar | ara i mroa | 10 | | TOOM | Lanny | | a | and the time | | | Larrar | |
| | ING OR ING TYPE S | Size | | FICATION | | 77 | 500 F 500 C | | TERVAL | | CEMENT I | | P | ACKE | RS |
| | ductor | oize | Grade | Weight | New | Used | For Dril | nng | Left 1 | n Well | OR SACKS | (CU. F1.) | Kinds | | |
| 2 2311 | 1/4 16 E/0 II V | 7" | ST | 17# | X | | 1094' | | 10 | 94' | Use Existing | Cooing | Tension | _ | |
| Coal | | | 51 | 1111 | Λ | | 1034 | | 10 | 34 | Ose Existing | Casing | Sizes | | |
| | rmediate | | | - | | | | | | | | _ | 2.375" | Y 15" | |
| | | 1/2" | J-55 | 10.5# | X | | 3089' | | 30 | 89' | Use Existing | Casing | Depths | | |
| Tubi | | 3/8" | J-55 | 4.6# | X | - | 2850' | | 28 | | Coo Estimoting | ottoring | 2750' | | |
| Line | | | | | | | | | | | | | Perfora | tions | |
| | | | - | | 1 | | | | | | | D | Top | Botton | m |
| | | | | | | | | | | | | HECE | IVEL |) | |
| | | | - | | | | | | | | Office | e of O | Lanc | 100 | 0 |
| 24) | APPLICANTS OF | PERAT | ING RIG | HTS were | acquir | ed from | Ire | ne Reilly | , et al | | | | | · Ud | 5 |
| | by Deed | | Lease | X | 100 | her Cont | - | | Dated | Januar | y 17, 1889 | SEP 26 | of recor | d in the | e |
| | _ | | Wetzel | | 3. 42. | y Clerk's | - | | ease | Book | | t Page | of recor 193 | A. a. a. | |
| | | | | | - | o mount | | - | | | 14/1/ | | _ | | |

WV Department of Environmental Protection

State of West Virginia **Division of Environmental Protection** Section of Oil and Gas Well Operator's Report of Well Work

Farm name:

WV PUBLIC LANDS CORP.

Operator Well No.: **IRENE REILLY 16**

LOCATION:

Elevation:

1,117'

Quadrangle:

CENTERPOINT 7.5'

District:

GREEN

Latitude:

County:

WETZEL

39 Deg 30 Min

0 Sec.

Longitude:

1,840 Feet south of 9,760 Feet west of

80 Deg 40 Min

0 Sec.

| Company Address: | HG Energy PO Box 5519 Vienna, WV | | Casing & Tubing | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|---------------------|--|------------|--------------------|---------------------|-----------------|---------------------------|
| Inspector: | Derek H | aught | | | | |
| Date Permit Is | sued: 6/ | 23/2011 | | | | |
| Date Well Wo | rk Commenced: | 10/13/2011 |] | | | |
| Date Well Wo | rk Completed: | 11/21/2011 | | | | |
| Verbal Pluggii | ng: | | 1 | | | |
| Date Permission | on Granted On: | | | | | |
| Rotary X | Cable R | g | 7" | 1094' | 1094' | 270 sks |
| Total vertical | Depth (ft): | 3170' | 1 | | | |
| Total Measure | d Depth (ft): | 3170' | | | | |
| Fresh Water D | epth (ft): | 400' | 4 ½" | 3088.95' | 3088.95' | 150 sks |
| Salt Water De | pth (ft): | None | | | | |
| Is Coal being r | nined in ares (Y/N)? | No | | | | |
| Coal Depths (f | t): x 83 | 36'-846' | | | | |
| Void(s) encour | ntered (Y/N) depth(s): NONE | | | | | |
| | | | | | | |

OPEN FLOW DATA

* Waterflood Producer

| | | | | | | | 29: | 50'-2951' |
|----------|---------------------|--------|-----------|-----------|------------------|--------------|---------|-------------|
| Produc | ing formation | | Gord | on | Pay z | one depth (f | ft) 29' | 79'-2980' |
| Gas: | Initial open flow | | * | MCF/d | Oil: Initial ope | n flow | * | Bbl/d |
| | Final open flow | | * | MCF/d | Final open | flow | * | Bbl/d |
| | Time of open flow | betwee | n initial | and final | l tests | * | Hours | |
| Static r | ock pressure | | * | psig (sur | rface pressure) | after | * | _Hours |
| Second | producing formation | | | | | one depth (f | t) | |
| Gas: | Initial open flow | | | MCF/d | Oil: Initial ope | n flow | | Bbl/d |
| | Final open flow | | | MCF/d | Final open | flow | | Bbl/d |
| | Time of open flow | betwee | n initial | and final | tests | | Hours | |
| Static r | ock pressure | | | psig (sur | face pressure) | after | · | _Hours |

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments 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.

Were core samples taken?

No

Were cuttings caught during drilling? No

Were Electrical,

Mechanical, N or Geophysical logs recorded on this well?

Y/N

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Treatment:

Treated perfs 2950'-2591',2953'-2961', 2964'-2965', 2975.5'-2976.5', and 2979'-2980' w/

500 gals 15% HCL, 362 bbls cross linked gel, and 20,000# 20/40 sand.

Well Log:

All depths are measured relative to KB (8' AGL).

| An depuis are measured | Telative t | |
|------------------------|------------|--------|
| Shale w/ sand streaks | 0 | - 836 |
| Coal | 836 | - 846 |
| Sand/Shale | 846 | - 1054 |
| sand | 1054 | - 1076 |
| shale | 1076 | - 1139 |
| sand | 1139 | - 1174 |
| shale | 1174 | - 1288 |
| sand | 1288 | - 1334 |
| shale | 1334 | - 1384 |
| sand | 1384 | - 1441 |
| shale | 1441 | - 1454 |
| sand | 1454 | - 1483 |
| shale | 1483 | - 1496 |
| sand | 1496 | - 1531 |
| shale | 1531 | - 1599 |
| sand | 1599 | - 1616 |
| shale | 1616 | - 1632 |
| sand | 1632 | - 1640 |
| shale | 1640 | - 1692 |
| sand | 1692 | - 1725 |
| shale | 1725 | - 1790 |
| sand | 1790 | - 1800 |
| shale | 1800 | - 1874 |
| sand | 1874 | - 1912 |
| shale | 1912 | - 2054 |
| sand | 2054 | - 2069 |
| shale | 2069 | - 2081 |
| sand | 2081 | - 2106 |
| Big Lime | 2106 | - 2174 |
| Big Injun | 2174 | - 2343 |
| shale | 2343 | - 2921 |
| Gordon Stray | 2921 | - 2939 |
| shale | 2939 | - 2947 |
| Gordon | 2947 | - 2966 |
| shale | 2966 | - 2974 |
| Sand | 2974 | - 2984 |
| shale | 2984 | - 3170 |
| TD | 3170 | |
| T.DLogger | 3156 | KB |
| T.DDriller | 3170 | KB |
| | | |

WW-3A 10/07

5) Surface Owner(s) To Be Served



| 1) Date: | | July 31, 2 | 013 | | |
|------------------|--------|------------|----------|--------|--|
| 2) Operator's We | ll No. | Irene Reil | ly No. 1 | 6 | |
| 3) API Well No. | 47 | 103 | | 2655 | |
| | State | County | | Permit | |
| 4) UIC Permit N | 0. | UIC2R09 | 501AP | | |

Environmental Protection

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

7 (a) Coal Operator

| (a) Name | WV Public Lands Corporation | | Name | NA | |
|-----------------------|---|------------|----------------|-----------------------|------------------------------|
| Address | 1900 Kanawha Blvd. East | | Address | | |
| - | Charleston, WV 25305 | | | | |
| (b) Name | John S. Knight | 7 (b) | Coal Owner | (s) With Declaratio | on Of Record |
| Address | 1668 Hillside Terrace | | Name | NA | |
| | Akron, OH 44305 | | Address | | |
| (c) Name | Sandra Brown | | 1 | | |
| Address | 7685 S. Union Road | | Name | NA | |
| | Miamisburg, OH 45342 | | Address | | |
| _ | Miamisburg, OH 45342 | | | | |
| 6) Inspector | Derek Haught | 7(c) | Coal Lessee V | With Declaration C | Of Record |
| Address | PO Box 85 | | _ | NA | |
| - | Smithville, WV 26178 | | | | |
| Telephone | 206-7613 | | | | |
| TO THE DEDC | ON(S) NAMED ABOVE: You should have | rocai | vod this t | form and the | following documents: |
| | | | | | |
| | ation for a Liquid Injection or Waste Disposal W | ell Wo | rk Permit | on Form WW- | 3(B), which |
| | parties involved in the drilling or other work; | ***** | 0 1 | | |
| | urveyor's map) showing the well location on For | | | | 118 |
| | uction and Reclamation Plan on Form WW-9 (u | | | | |
| which sets | out the plan for erosion and sediment control ar | nd for 1 | reclamatio | n for the site a | nd access road. |
| The date propos | sed for the first injection or waste disposal is | N | IA | | |
| | OU RECEIVED THESE DOCUMENTS IS THAT YOU | _ | | REGARDING T | HE APPLICATION |
| | MMARIZED IN THE "INSTRUCTIONS" ON FORM V | | | | |
| | IRED TO TAKE ANY ACTION AT ALL. | 11 11-0(2 | I) DEDICIN | TILD TO TOO. | HOWE THE TOO |
| | | C-102 | | 20 2 2 | |
| | der Chapter 22-6 of the <u>West Virginia Code</u> , the undersigned | | | | |
| | ompanying documents for a Well Work Permit with the Chie | | | | |
| | ection, with respect to a well at the location described on the | | | | |
| | s Notice, the Application, the plat, and the Construction and | | | | |
| | ivered by hand to the person(s) named above (or by publicati | ion in ce | rtain circum | stances) on or before | re the day of the |
| mailing or delivery t | to the Chief. | | | | |
| | The person signing this document shall make the | followi | ng cortificat | tion: | |
| | The person signing this document shan make the | IOHOWI | ng terrinta | nom. | |
| "I certify under pen | alty of law that I have personally examined and am | Well | Operator | HG Energy | y, LLC |
| | formation submitted in this document and all attachments | Add | | 5260 Dupo | nt Road |
| | ny inquiry of those individuals immediately responsible | | | Parkersbu | rg, WV 26101 |
| | formation, I believe that the information is true, accurate | | | | |
| and complete. I am | aware that there are significant penalties for submitting | By: | | Diane C. W | Vhite |
| false information, in | acluding the possibility of fine and imprisonment." | Its: | | Accountan | t |
| | | | | | RECEIVED |
| | | | | 0.0 | office of Out - |
| | | Sign | ature | Dia | ne cultaring |
| Oil and Gas Privacy | | | | | CED a |
| The Office of Oil and | d Gas processes your personal information, such as name, ac | ddress a | nd phone nu | mber, as a part of c | our regulator Butigs 3 |
| Your personal infor- | mation may be disclosed to other State agencies or third par | ties in t | he course of l | ousiness or as need | led to comply with statutory |
| or regulatory requir | rements, including Freedom of Information Act requests. Our about our use of your personal information, please contact D | r office v | vill appropri | officer at: | deportune officer esyreov |
| nave any questions | about our use of your personal information, please contact is | OI | | Envir | COPPORT |

WW-2B1 Well No. Irene Reilly No. 16

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.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

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

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

| Contractor Nam | e Sturm Environmental Services |
|-----------------|--------------------------------|
| Well operator's | private laboratory |
| | |
| 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 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.

No known Water Supply Sources are located within 2000' of proposed well.

RECEIVED
Office of Oil and Gas

SEP 262013

WV Department of Environmental Protection

Form WW-9 Rev. 10/94

| | Page | 3 | of | 3 |
|---------------------|-----------|----------|--------|------|
| API N | umber 47- | 103 | - | 2655 |
| Operator's Well No. | Irene I | Reilly N | Vo. 16 | |

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

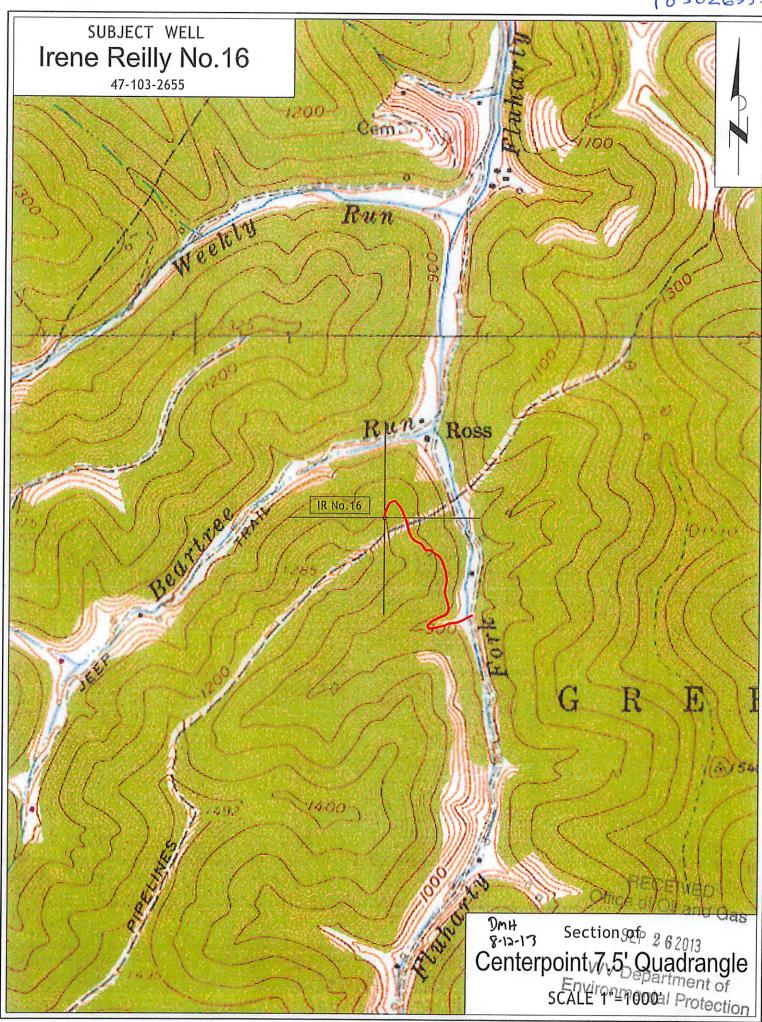
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

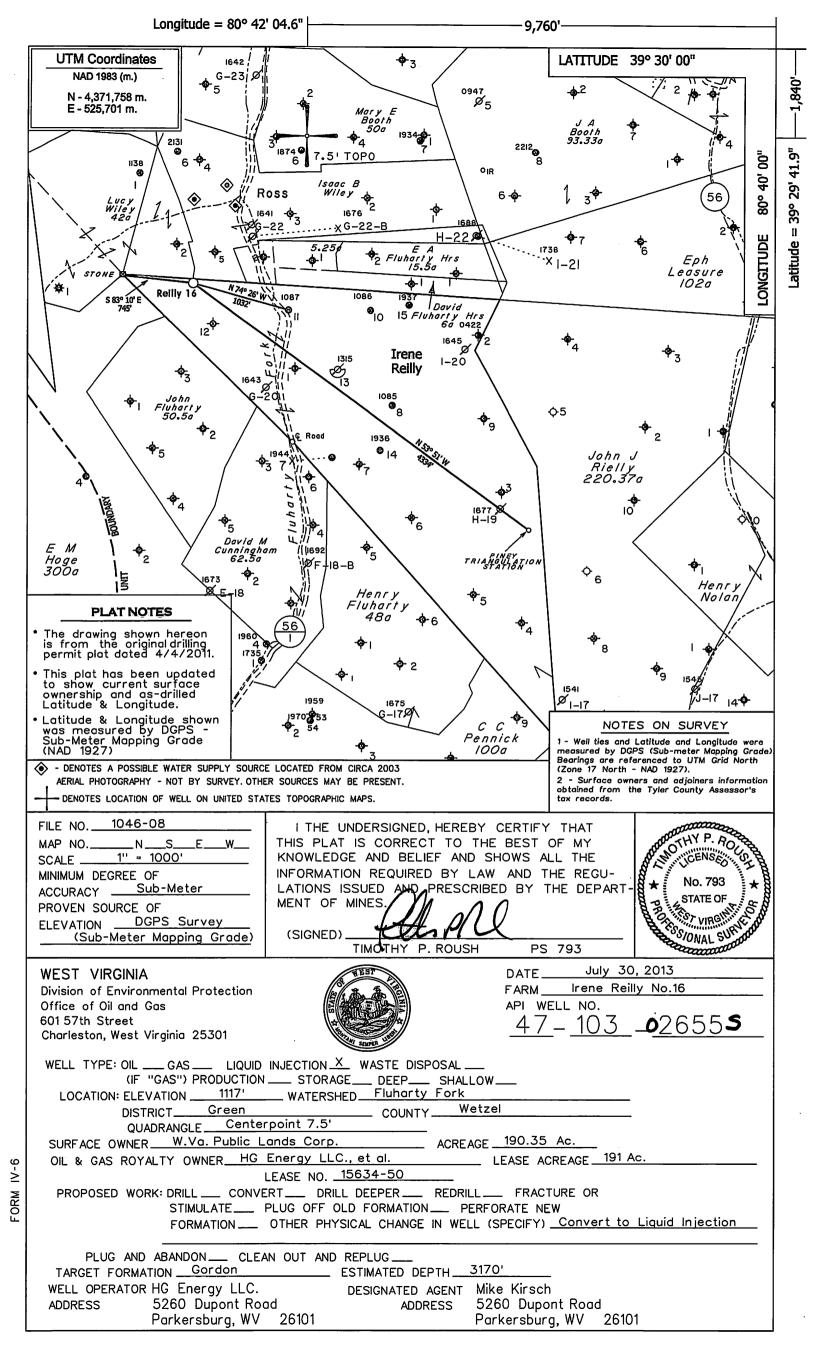
| Watershed Fluharty Fo | 44. | | A CALL TO THE REAL PROPERTY. | 948 |
|---|--|---|--|-------|
| Elevation 1117' | rk | Quadrangle | Centerpoint 7.5' | |
| | County Wetzel | District | Green | |
| Description of anticipated Pit Waste: | A pit will not be used | | | |
| Do you anticipate more than 5,000 bbls o | f water to complete the proposed we | ell work Yes | No X | |
| Will a synthetic liner be used in pit? | NA If so, what mil.? | | | |
| Proposed Disposal Method For Treated P | it Wastes: | | | |
| Land Applica | | | | |
| Underground Reuse (at API | Injection (UIC Permit Number | | |) |
| | sal (Supply Form WW-9 for disposa | 1 location) | |) |
| | (Explain | i location) | |) |
| Orilling medium anticipated for this well? | Air, fresh water, oil based, etc. | NA | | , |
| - If oilbased, what type? Syn | | NA | | - |
| Additives to be used? NA | | | | |
| orill cuttings disposal method? Leave in | | | | |
| If left in pit and plan to sol Landfill or offsite name/per | idify, what medium will be used? C | ement, lime, sawdust N | A | |
| | | | | |
| - Tr | thereto and that, based on my inqui | iry of those individuals im | formation submitted on mediately responsible | |
| or obtaining the information, I believe the enalties for submitting false information, | at the information is true, accurate | and complete. I am aware mprisonment. | nediately responsible | |
| or obtaining the information, I believe the enalties for submitting false information, company Official Signature | at the information is true, accurate a including the possibility of fine or i | and complete. I am aware mprisonment. | nediately responsible | |
| or obtaining the information, I believe that enalties for submitting false information, ompany Official Signature ompany Official (Typed Name) | at the information is true, accurate a including the possibility of fine or i | and complete. I am aware mprisonment. | nediately responsible | |
| or obtaining the information, I believe the cenalties for submitting false information, Company Official Signature Company Official (Typed Name) Company Official Title | at the information is true, accurate a including the possibility of fine or i Diane C. White | and complete. I am aware mprisonment. | nediately responsible | |
| or obtaining the information, I believe that cenalties for submitting false information, Company Official Signature Company Official (Typed Name) | at the information is true, accurate a including the possibility of fine or i Diane C. White Accountant | and complete. I am aware mprisonment. | nediately responsible that there are signific | |
| or obtaining the information, I believe the enalties for submitting false information, company Official Signature company Official (Typed Name) company Official Title | at the information is true, accurate a including the possibility of fine or i Diane C. White Accountant | and complete. I am aware mprisonment. C. White Ugust 201 | nediately responsible that there are signific | ant |
| or obtaining the information, I believe the enalties for submitting false information, company Official Signature Company Official (Typed Name) Company Official Title | at the information is true, accurate a including the possibility of fine or including | and complete. I am aware mprisonment. C. White Grant Zoi. No | nediately responsible that there are signific | EIVEC |
| or obtaining the information, I believe the cenalties for submitting false information, Company Official Signature Company Official (Typed Name) Company Official Title | at the information is true, accurate a including the possibility of fine or including | and complete. I am aware mprisonment. C. White Grant Zoi. No | nediately responsible that there are signific | EIVEC |

WW9-Back

Legend

| Property Boundary | A A A | Diversion | | |
|--------------------------------|--|--|-------------------|--|
| Road | | Spring | <u> </u> | |
| Existing Fence | xx | Wet Spot | Ď | |
| Planned Fence | //_ | Drain Pipe | (12) | |
| Stream | | Waterway | ←> ←> ←> | |
| | -7 ·-7 | Cross Drain | | |
| Open Ditch | | Filter Strip | XXXXXXXXXXX | |
| Rock ! | 00th Man | Pit: Cut Wails | | |
| | N | | willer. | |
| North . | N | Pit: Compacted Fill Walls | | · |
| 'Buildings | | | 7777 | |
| Water Wells | W | Area of Land Application | (12 7 7 1 3 - 2) | |
| Drill Site | ⊕ | of Pit Waste | | _} |
| | | _ | | |
| | Are | | tetter my | |
| roposed Revegetation Treatm | ent: Acres Disturbed Approx. | | revegetation pH | |
| • | Are | в II 0.1 Ас. | | |
| • | Approx. | U.I Au. | | |
| Lime | 2 Tons/Acre or C | orrect to pH 6.5 | | |
| Fertiliz | zer (10-20-20 or Equivalent) 50 | | lbs. Minimum) | |
| | Straw 2 Tons/A | cre . | | |
| | SEED MI | XTURES | | |
| | 1 | | Area II (Road) | |
| Area | a I (Location) | Seed Type | Lbs/Ac. | |
| Seed Type | Lbs/Ac. | Tall Fescue | 40 ^ | . 1 |
| Tall Fescue | 5 | Ladino Clover | . 5 | · 00 |
| Ladino Clover | | | | 100 |
| | | | | |
| | | | Ch Case | 2.6 2013 Office of Oil and Gas Protection Office of Oil and Gas Protection |
| Attach: | | | | 2.0 Cas dection |
| m | pit and proposed area for land application | λπ | SEY | all and Chal Pro |
| Photocopied section of involve | vett 7.5 topograpino sitem | | | CO O MICHAE |
| | 1/ | _ | | Of Eur |
| Plan approved by: | V0/ | | W De | |
| Comments: | | | | |
| Title: A | 1 + les Torreller | | Date: 8-12-13 | |
| 11ue: | 1 + less Inspeller | |) No | |
| Field Reviewed? | (Yes | • | /- | |
| | | and the state of t | | |
| • | | and the second s | | |
| | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | er f | | |
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HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

CK+12330 5500

July 30, 2013

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

RE: Irene Reilly No. 16 (API 47-103-2655)

Green District, Wetzel County

West Virginia

Dear Mr. McLaughlin:

Enclosed are the Forms WW-3A, WW-3B, WW-9, WW-2(B1), mylar of plat, reclamation plan, topo map and copy of the certified mailing receipt for a permit to convert the above-captioned shallow, producing well to an injection well. Our check in the amount of \$550 is attached.

If you have any questions regarding this application, please call me at 304-420-1119.

Very truly yours,

Diane C White

Diane C. White

Enclosures

cc: WV Public Lands Corporation - Certified

John S. Knight – Certified Sandra Brown - Certified Derek Haught - Inspector RECEIVED
Office of Oil and Gas

SEP 3 6 2013

W/V Department of Environmental Protection