



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

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 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: 01/13/2015
2) Operator's Well No. Ivy Fisher 111
3) API Well No.: 47 - Roane - s
State County Permit
4) UIC Permit No. UIC2R08704AP

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: 1038' Watershed: Rush Run
District: Smithfield County Roane Quadrangle Looneyville 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 Ed Gainer Name To Be Determined Upon Approval of Permit
Address P. O. Box 821 Address _____
Spencer, WV 25276

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 Big Injun Depth 2100 Feet (top) to 2120 Feet (bottom)
13) Estimated Depth of Completed Well, (or actual depth of existing well): 2200' Feet
14) Approximate water strata depths: Fresh 375' Feet Salt 1600' Feet
15) Approximate coal seam depths: NA
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/or coal 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.)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For Drilling	Left In Well		
Conductor									Kinds
Fresh Water	7"	LS ST&C	17#	x		500'	500'	CTS	
Coal									Sizes
Intermediate									2.375"x4.5"
Production	4 1/2"	J-55	10.5#	x		2160'	2160'	200 sks	Depths set
Tubing	2 3/8"	J-55	4.6#	x		1910'	1910'		1810'
Liners									Perforations
									Top Bottom

24) APPLICANT'S OPERATING RIGHTS were acquired from J. O. Fisher
by deed / lease / other contract / dated 09/23/1909 of record in the
Roane County Clerk's office in RECEIVED Book 16 Page 257

[Handwritten Signature]
1/26/15

Office of Oil and Gas

FEB 03 2015

8704 165 5

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 1.61
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.61



Sent To Willie King
 Street, Apt. No.; or PO Box No. 1090 clover Road
 City, State, ZIP+4 Spencer, WV 25276

PS Form 3800, August 2006 See Reverse for Instructions

T255 4204 0000 0T50 4T02

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.61



Sent To Richard Fisher et al.
 Street, Apt. No.; or PO Box No. 4513 Clay Road
 City, State, ZIP+4 Spencer, WV 25276

PS Form 3800, August 2006 See Reverse for Instructions

855 4204 0000 0T50 4T02

PAY TO THE ORDER OF WV D.E.P.

Six Hundred Fifty Dollars and 00/100

Peoples BANK
 Working Together. Building Success.
 800.374.6123
peoplesbankcorp.com

FOR Permit Ivy Fisher No. 111

HG ENERGY, LLC
 304-422-6565
 5260 DUPONT RD
 PARKERSBURG, WV 26101

03-11

Barbara

DATE 1-14-2015

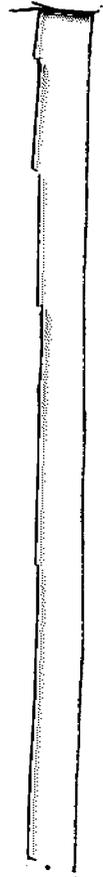
\$ 650.00

DOLLARS

2898

56-250/442 02

RECEIVED
 Office of Oil and Gas
 FEB 06 2015
 WV Department of
 Environmental Protection



87047655

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 contractor 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 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, 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

SEE
TOPO MAP.

* Willie King
1090 Clover Road
Spencer WV 25276

* Richard Fisher
4513 Clay Road
Spencer WV 25276

RECEIVED
Office of Oil and Gas

FEB 06 2015

WV Department of
Environmental Protection

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

Operator Name HG Energy, LLC OP Code 494497948

Watershed Rush Run Quadrangle Looneyville 7.5'

Elevation 1038' County Roane District Smithfield

Description of anticipated Pit Waste: Fluids encountered while drilling shallow well

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

Will a synthetic liner be used in the pit? Yes. If so, what mil.? 20 mil

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 25-561)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air, Fresh Water

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

Additives to be used? Water, Soap, KCl

Will closed loop system be used? No

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in pit

-If left in pit and plan to solidify what medium will be used? Cement, lime, sawdust Native soil, cement, lime

-Landfill or offsite name/permit number? _____

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.

RECEIVED
Office of Oil and Gas

Company Official Signature Diane White

Company Official (Typed Name) Diane White

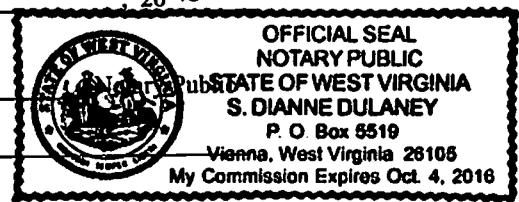
FEB 04 2015

Company Official Title Agent

WV Department of
Environmental Protection

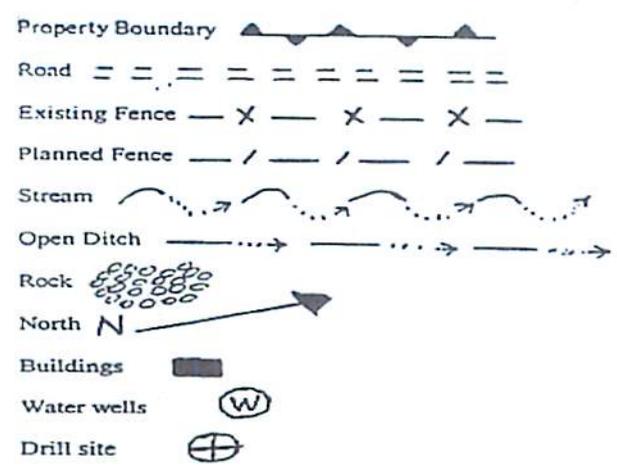
Subscribed and sworn before me this 13th day of January, 20 15

[Signature]
My commission expires Oct. 4, 2016

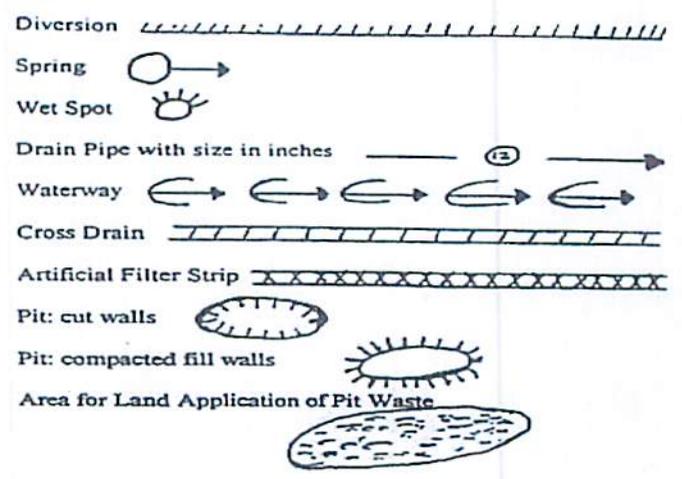


My Commission Expires Oct. 4, 2016
Virginia West Virginia 26108
P. O. Box 2819
S. DANNIE DLANEY
STATE OF WEST VIRGINIA
NOTARY PUBLIC
OFFICIAL SEAL





LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.2 acres Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch Straw 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre
Tall Fescue		40
Ladino Clover		5

Seed Type	Area II	lbs/acre
Tall Fescue		40
Ladino Clover		5

Sediment control to be in place at all times.

Attach:
Drawing(s) of road, location, pit and proposed area for land application.
Photocopied section of involved 7.5' topographic sheet.

RECEIVED
Office of Oil and Gas
FEB 03 2015

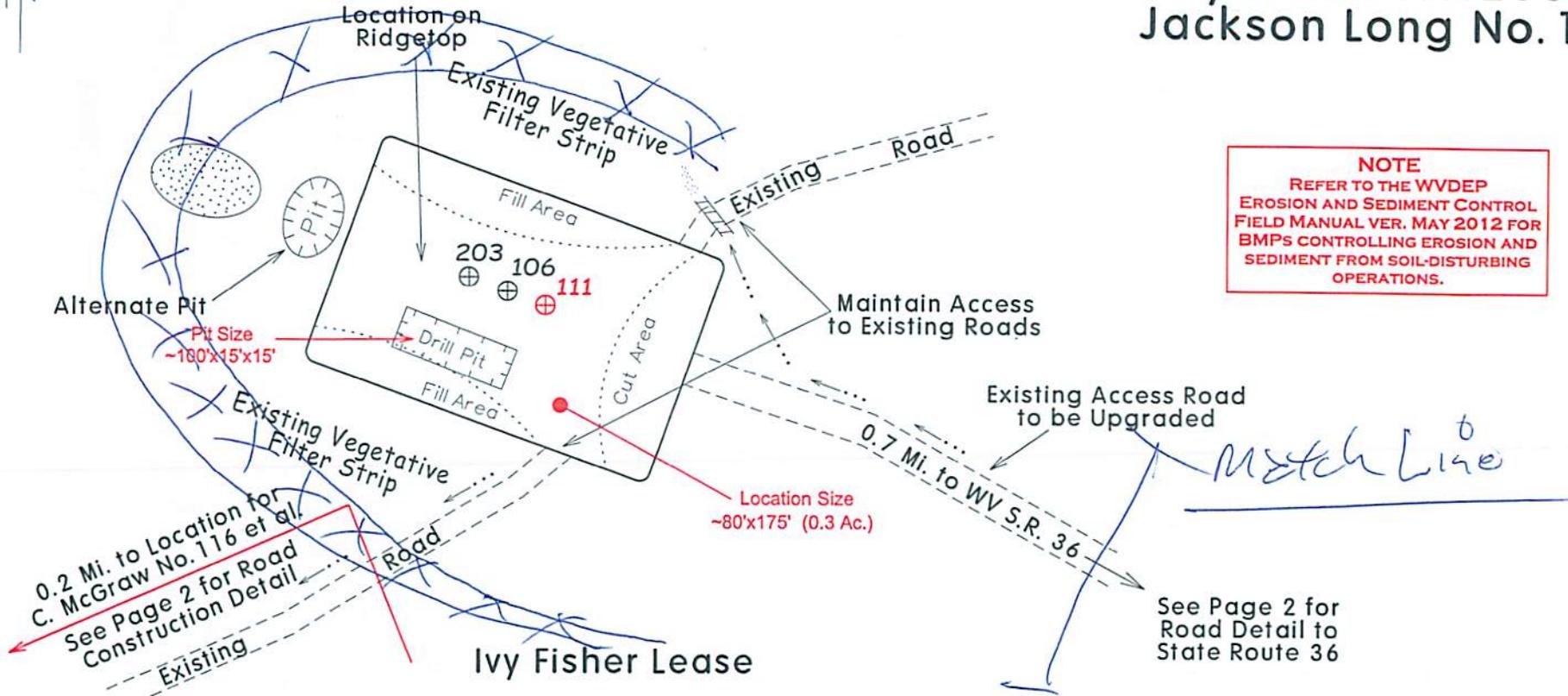
Plan Approved by:
Comments: _____

WV Department of
Environmental Protection

Title: Inspector Date: 1/26/15
Field Reviewed? Yes No

Reclamation Plan For:

Ivy Fisher No. 111 Ivy Fisher No. 203 & Jackson Long No. 106



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

0.2 Mi. to Location for
C. McGraw No. 116 et al.
See Page 2 for Road
Construction Detail

Location Size
~80'x175' (0.3 Ac.)

See Page 2 for
Road Detail to
State Route 36

WV Department of
Environmental Protection
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Office of Oil and Gas
FEB 06 2015

Handwritten signature and date:
11/26/15

Willie King
- Surface

Notes:

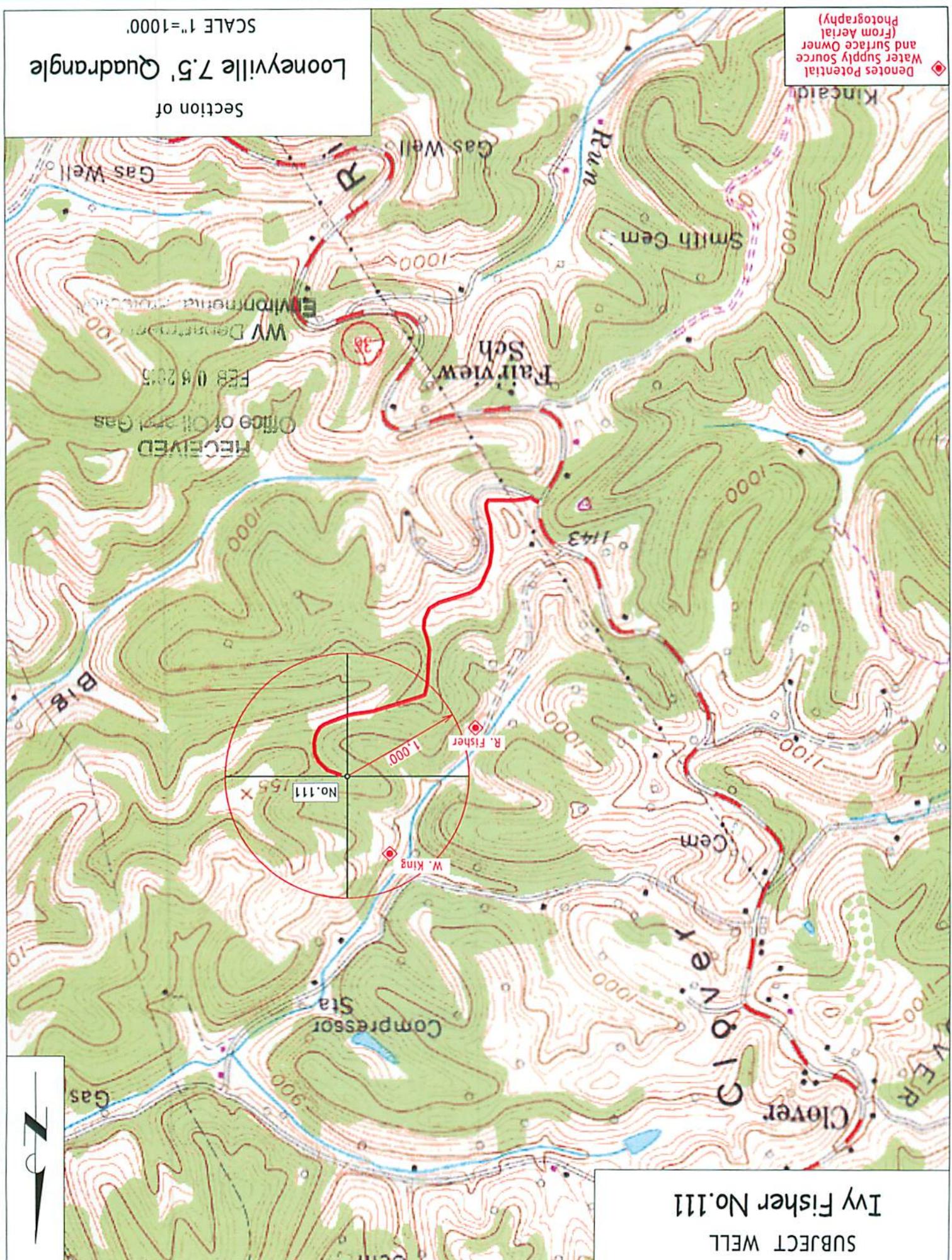
- REQUESTED PERMIT IS FOR DRILLING OF NEW WELL.
- SOME ACCESS ROADS ARE EXISTING AND WILL BE UPGRADED TO WVDEP STANDARDS. NEW STRUCTURES WILL BE INSTALLED AS SHOWN.
- STOCKPILE TOPSOIL FOR RE-DRESSING LOCATION DURING RECLAMATION
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN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

See Page 2 for
Road to Additional Wells

87047655

8704765S

SUBJECT WELL
Ivy Fisher No.111



Denotes Potential
Water Supply Source
and Surface Owner
(From Aerial
Photography)

Section of
Looneyville 7.5' Quadrangle
SCALE 1"=1000'

RECEIVED
Office of Oil and Gas
FEB 08 2015
WV Department of Environmental Protection

87047655

WV Department of Environmental Protection

FORM WV-6 LEASE # 57015-00

PERMIT ADDRESS 5260 DUPONT ROAD PARKERSBURG, WV 26101

WELL OPERATOR H.G. ENERGY, LLC

ESTIMATED DEPTH TVD=2,200'

OFFICE OF ENVIRONMENTAL PROTECTION

PERMIT COUNTY NAME COUNTY NAME

ACREAGE 40.16 ACRES +/- LEASE ACREAGE 40.75 ACRES +/-

FRACURE OR REDRILL DRILL DEEPER X CONVERT X PLUG OFF OLD FORMATION

OTHER PHYSICAL CHANGE IN WELL (SPECIFY) CLEAN OUT & REPLUG

TARGET FORMATION BIG INJUN

WELL TYPE: OIL GAS LIQUID INJECTION X STORAGE DEEP SHALLOW

WASTE DISPOSAL HORIZONTAL

LOCATION: ELEVATION 1038' WATERSHED RUSH CREEK OF HENRYS FORK

DISTRICT SMITHFIELD COUNTY ROANE

QUADRANGLE LOONEYVILLE 7.5'

SURFACE OWNER WILLIE KING

OIL & GAS ROYALTY OWNER PEARLE TAYLOR ET AL

LEASE ACRES +/-

PERMIT

DATE 12/15/14

OPERATOR'S WELL

JOSHUA E. MOODY, P.S. 2020

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

OFFICE OF OIL AND GAS

WOODY LAND SURVEYING, LLC

ST. MARYS, WV 26170

OFFICE OF ENVIRONMENTAL PROTECTION

STATE OF WEST VIRGINIA

PROVEN SOURCE OF ELEV. MAPPING GRADE GPS

ACCURACY 1/200

MINIMUM DEGREE OF SCALE 1" = 1000'

DRAWING # 14-033

JOB # 14-033

THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION

REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PERSCRIBED BY

I THE UNDERSIGNER, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO

THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1/200

PROVEN SOURCE OF ELEV. MAPPING GRADE GPS

OFFICE OF ENVIRONMENTAL PROTECTION

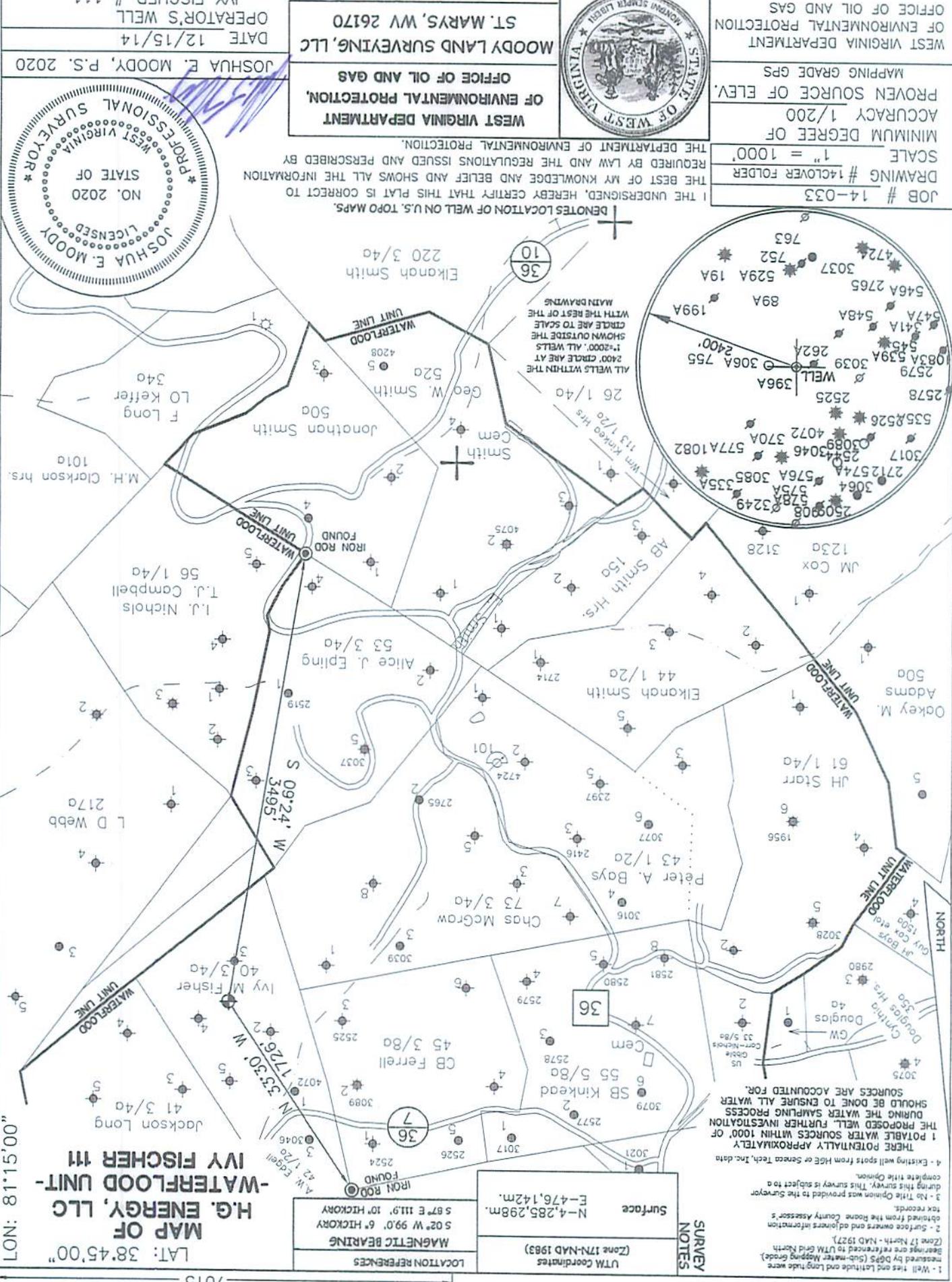
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

OFFICE OF OIL AND GAS

WOODY LAND SURVEYING, LLC

ST. MARYS, WV 26170

OFFICE OF ENVIRONMENTAL PROTECTION



MAP OF WATERFLOOD UNIT- H.G. ENERGY, LLC
IVY FISCHER III
LAT: 38.45'00"
LON: 81.15'00"

LOCATION REFERENCES
MAGNETIC BEARING
5.02° W 99.0' 6" HICKORY
5.87° E 111.9' 10" HICKORY
E-4,285.298m.
N-4,476.142m.

UTM Coordinates (Zone 17N-MAD 1983)
SURVEY NOTES
1 - Well ties and latitude and longitude were measured by DGS (Sub-meter Mapping Grade). Bearings are referenced to UTM Grid North. (Zone 17 North - MAD 1927).
2 - Surface owners and adjacent information obtained from the Roane County Assessor's tax records.
3 - No Title Opinion was provided to the Surveyor during this survey. This survey is subject to a complete title opinion.
4 - Existing well spots from HGE or Seneca Tech, Inc. data THERE POTENTIALLY APPROXIMATELY 1 POTABLE WATER SOURCES WITHIN 1000' OF THE PROPOSED WELL. FURTHER INVESTIGATION SHOULD BE DONE TO ENSURE ALL WATER SOURCES ARE ACCOUNTED FOR.

PROFESSIONAL SURVEYOR
STATE OF WEST VIRGINIA
NO. 2020
LICENSED
JOSHUA E. MOODY
DATE 12/15/14
OPERATOR'S WELL
IVY FISCHER # 111

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
WOODY LAND SURVEYING, LLC
ST. MARYS, WV 26170

WV Department of Environmental Protection
FORM WV-6
LEASE # 57015-00
ADDRESS 5260 DUPONT ROAD PARKERSBURG, WV 26101
WELL OPERATOR H.G. ENERGY, LLC
ESTIMATED DEPTH TVD=2,200'
OFFICE OF ENVIRONMENTAL PROTECTION
PERMIT COUNTY NAME COUNTY NAME
ACREAGE 40.16 ACRES +/- LEASE ACREAGE 40.75 ACRES +/-
FRACURE OR REDRILL DRILL DEEPER X CONVERT X PLUG OFF OLD FORMATION
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) CLEAN OUT & REPLUG
TARGET FORMATION BIG INJUN
WELL TYPE: OIL GAS LIQUID INJECTION X STORAGE DEEP SHALLOW
WASTE DISPOSAL HORIZONTAL
LOCATION: ELEVATION 1038' WATERSHED RUSH CREEK OF HENRYS FORK
DISTRICT SMITHFIELD COUNTY ROANE
QUADRANGLE LOONEYVILLE 7.5'
SURFACE OWNER WILLIE KING
OIL & GAS ROYALTY OWNER PEARLE TAYLOR ET AL
LEASE ACRES +/-

WV Department of Environmental Protection
 LEASE # 57015-00
 ADDRESS: 5260 DUPONT ROAD, PARKERSBURG, WV 26101
 WELL OPERATOR: H.G. ENERGY, LLC
 DESIGNATED AGENT: DIANE WHITE
 TWD=2,200'
 ESTIMATED DEPTH: _____
 COUNTY NAME: _____
 COUNTY: _____ STATE: _____
 ACREAGE: 40.16 ACRES +/-
 LEASE ACREAGE: 40.75 ACRES +/-
 PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION: BIG INJUN
 SURFACE OWNER: WILLIE KING
 QUADRANGLE: LOONEYVILLE 7.5
 DISTRICT: SMITHFIELD
 COUNTY: ROANE
 LOCATION: ELEVATION 1038' WATERSHED RUSH CREEK OF HENRYS FORK
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 WELL TYPE: OIL GAS LIQUID INJECTION X WASTE DISPOSAL HORIZONTAL

PERMIT # 04765
 COUNTY NAME: _____
 COUNTY: _____ STATE: _____
 ACREAGE: 40.16 ACRES +/-
 LEASE ACREAGE: 40.75 ACRES +/-
 PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION: BIG INJUN
 SURFACE OWNER: WILLIE KING
 QUADRANGLE: LOONEYVILLE 7.5
 DISTRICT: SMITHFIELD
 COUNTY: ROANE
 LOCATION: ELEVATION 1038' WATERSHED RUSH CREEK OF HENRYS FORK
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 WELL TYPE: OIL GAS LIQUID INJECTION X WASTE DISPOSAL HORIZONTAL

DATE: 12/15/14
 OPERATOR'S WELL # 111
 IVY FISCHER # 111

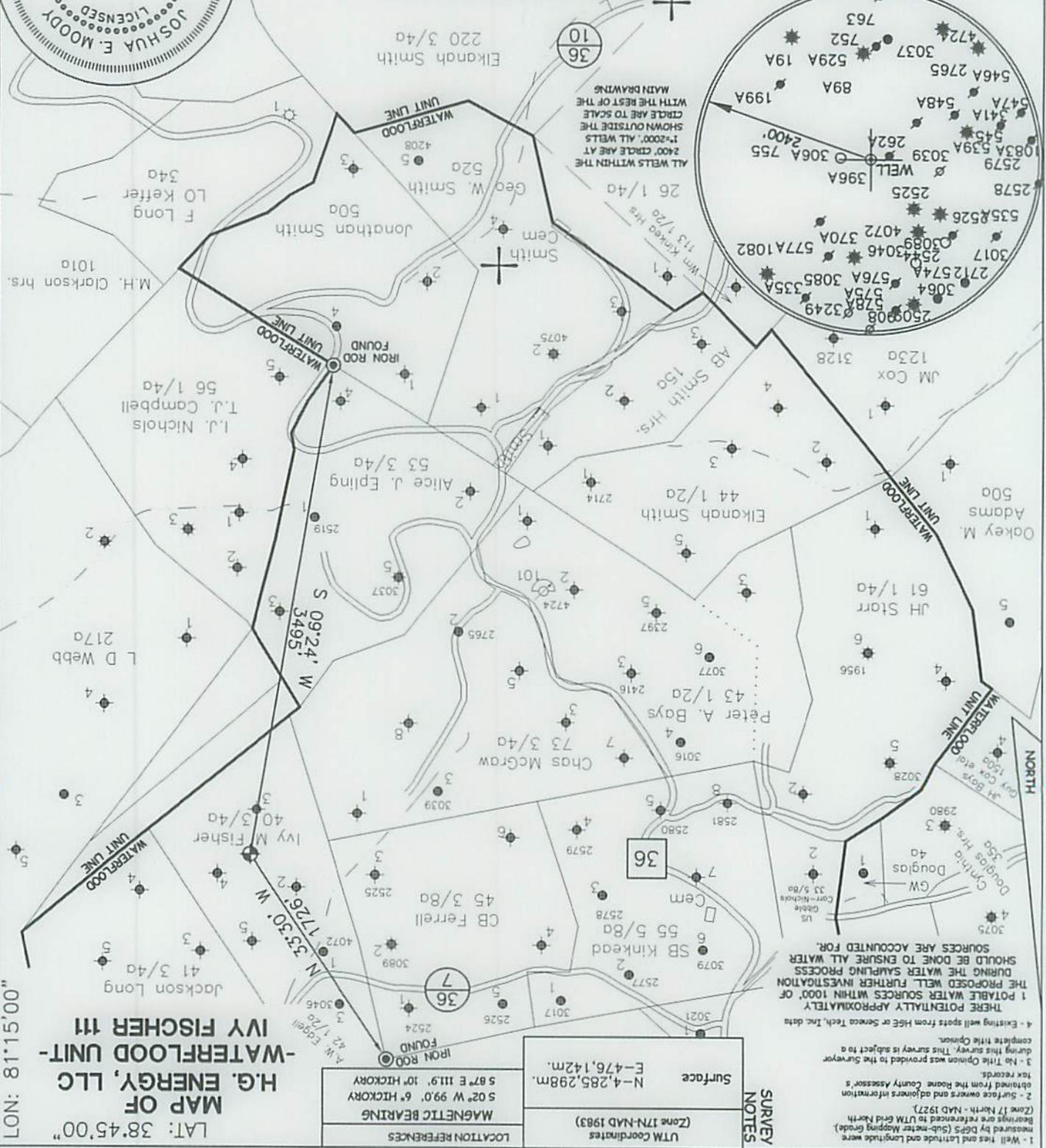
MOODY LAND SURVEYING, LLC
 ST. MARYS, WV 26170
 OFFICE OF OIL AND GAS
 WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 MAPPING GRADE GPS
 PROVEN SOURCE OF ELEV.
 ACCURACY 1/200
 MINIMUM DEGREE OF SCALE
 1" = 1000'
 DRAWING # 14-033
 JOB # 14-033



THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS, HEREBY CERTIFIES THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



LAT: 38°42'57.3"
 LON: 81°15'00"

MAP OF
 H.G. ENERGY, LLC
 WATERFLOOD UNIT-
 IVY FISCHER III

UTM Coordinates (Zone 17N-NAD 1983)
 Surface E-4,285,298m.
 E-4,76,142m.

MAGNETIC BEARING
 S 02° W 99.0' 6" HICKORY
 S 87° E 111.9' 10" HICKORY

1 - Well ties and Latitude and Longitude were measured by GPS (Sub-meter Mapping Grade). Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1983).
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HG Energy, LLC
5260 Dupont Road
Parkersburg, WV 26101
(304) 420-1100 - Office
(304) 863-3172 - Fax

87047655
CK# 2898
650.00

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

cc: Richard Fisher – Certified
Willie King - Certified
Ed Gainer – Inspector

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Office of Oil and Gas
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