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**west virginia** department of environmental protection

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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 24, 2014

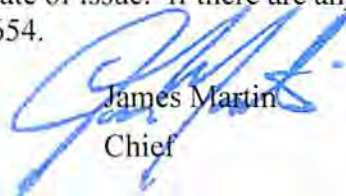
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-10300972, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: 2

Farm Name: EFAW, A.

**API Well Number: 47- 10300972**

**Permit Type: Plugging**

Date Issued: 11/24/2014

**Promoting a healthy environment.**

**11/28/2014**

## 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.

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### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. 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.
3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B  
Rev. 2/01

1) Date September 17, 2014  
2) Operator's  
Well No. Alfred Efaw 2  
3) API Well No. 47-103-0072

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil  / Gas  / Liquid injection  / Waste disposal  /  
(If "Gas, Production  or Underground storage  ) Deep  / Shallow
- 5) Location: Elevation 1261' Watershed Camp Run Creek  
District Center County Wetzel Quadrangle Littleton 7.5'
- 6) Well Operator HG Energy, LLC 7) Designated Agent Diane White  
Address 5260 Dupont Road Address 5260 Dupont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101
- 8) Oil and Gas Inspector to be notified Name Derek Haught  
Address P.O. Box 85  
Smithville, WV 26178
- 9) Plugging Contractor Name To Be Determined Upon Approval of Permit  
Address \_\_\_\_\_

10) Work Order: The work order for the manner of plugging this well is as follows:

Casing: TD - 3094'	Plug No. 1 - 3040' - 2940'
10" 314 pulled	Free point, cut & pull 5 3/16", est 2000'
8 1/4" 1489 pulled	Plug No. 2 - 2475' - 2375'
6 5/8" 2076	Plug No. 3 - 2050' - 1950'
5 3/16" 2428	Free point, cut & pull 6 5/8", est 1450'
	Plug No. 4 - 1500' - 1400'
	Plug No. 5 - 1050' - 850'
· 6% gel between cement plugs	Plug No. 6 - 360' - 260'
· If casing not removed across coals - pipe will be perforated	Plug No. 7 - 100' - 0'

CEMENT ACROSS COALS

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Office of Oil & Gas  
OCT 06 2014

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector [Signature] Date 9-29-14

Well No. **26794** *Alfred Egan* Farm.  
 Lease No. *Cent* Township *Stager* County *W*  
 Rig built by *Spe. Blair*  
 Well drilled by *Andrew Moore* Contractor.  
 Began drilling *Sept 23 1903* Completed *Jan 11 1904*

Rock Formation	Top	Bottom	Remarks
conductor		16	Start in Mar
Mapleton Sand	905		1005
Chickadee "	1005	1076	1489
Summit Sand	1485	1650	2060
Salt "	1755	2050	2405
Water	1890		3054
Marion Sand	2100		
Dix Sand "	2255	2435	
Garden Spring "	2037	2077	
<i>Sand</i>	3054		
<i>17/10 Maroon</i>	3065		
<i>Garden Sand</i>	3052		
<i>Salt</i>	3083		
<i>2nd Oil</i>	3090	3091	
<i>Total Depth</i>		3094	

30 bbls 1st 24 hours

*Leaving Ground*  
 Put in *Pulled* *Left in*

10	314.	314.	
8 1/2	1489	1489.	2076
2 7/8	2076		2428-2
3 3/16	2428-2		

*Sig J. Caldwell Super*

*Shot 6/27/16 - 1096 to bottom*  
*Shot 10/19/18 - 60 ft.*  
*" 6/6/20 - 60 ft. Garden*

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 Office of Oil & Gas  
 OCT 06 2014

*2/27*

WW-4A  
Revised 6-07

1) Date: September 17, 2014  
2) Operator's Well Number  
Alfred Efav 2  
3) API Well No.: 47 - 103 - 0972

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Steven &amp; James Barbe</u> ✓	Name <u>Murray Coal</u>
Address <u>60 May Lane</u>	Address <u>46226 National Road</u> ✓
<u>Burton, WV 26562</u>	<u>St. Clairsville, OH 43950</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector	(c) Coal Lessee with Declaration
Address _____	Name _____
	Address _____
Telephone _____	

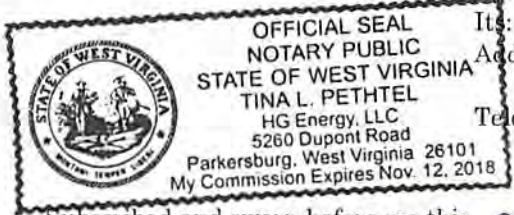
**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator HG Energy, LLC  
 By: Diane White *Diane White*  
 Its: \_\_\_\_\_  
 Agent \_\_\_\_\_  
 Address 5260 Dupont Road  
Parkersburg, WV 26101  
 Telephone 304-420-1119



Subscribed and sworn before me this 17 day of September 2014

My Commission Expires Nov 12 2018

Notary Public **Received**  
**Office of Oil & Gas**

**OCT 06 2014**

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. 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 information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

7012 3460 0002 6850 6229 0599 2000 094E 2T02

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Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.40</b>



Sent To Steven & James Barbe  
 Street, Apt. No.;  
 or PO Box No. 60 May Lane  
 City, State, ZIP+4 Burton WV 26562

PS Form 3800, August 2006 See Reverse for Instructions

7012 3460 0002 6850 6229 0599 2000 094E 2T02

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Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.40</b>



Sent To Murray Coal  
 Street, Apt. No.;  
 or PO Box No. 46226 National Road  
 City, State, ZIP+4 St. Clairsville OH 43950

PS Form 3800, August 2006 See Reverse for Instructions

10300972 P

WW-9  
Rev. 5/08

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 103 - 0972  
Operator's Well No. Alfred Elaw 2

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 Camp Run Creek Quadrangle Littleton 7.5'

Elevation 1261' County Wetzel District Center

Description of anticipated Pit Waste: Fluids encountered while plugging subject well

Will a synthetic liner be used in the pit? Yes ZOMK.

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 \_\_\_\_\_)

DMH  
9-29-14

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_)
- Swabbing
- Plugging

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

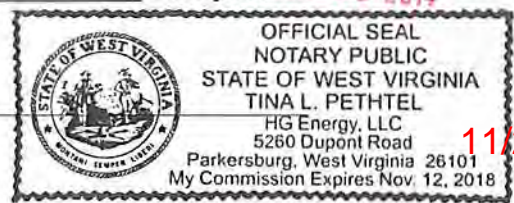
Company Official Title Agent

Subscribed and sworn before me this 17<sup>th</sup> day of September, 2014

[Signature]

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Office of Oil & Gas  
OCT 06 2014  
Notary Public

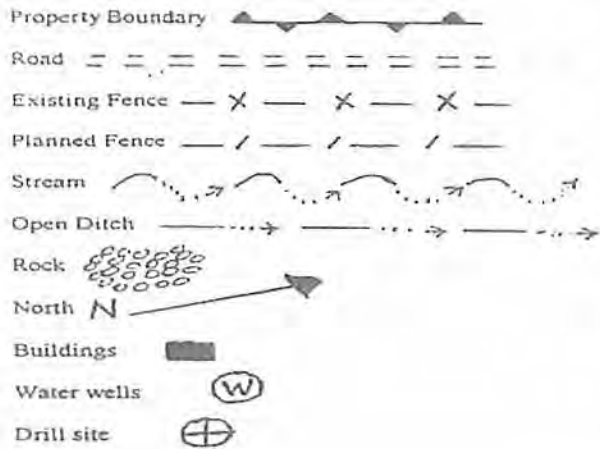
My commission expires NOV. 12, 2018



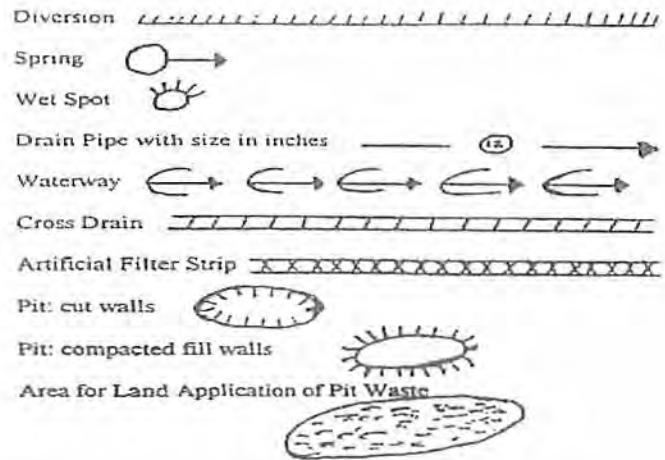
11/28/2014

Form WW-9

Operator's Well No. Alfred Efaw 2



**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed 0.5 acres Prevegetation pH \_\_\_\_\_  
 Lime 2 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	Seed Type	Area II	lbs/acre
Tall Fescue		40	Tall Fescue		40
Ladino Clover		5	Ladino Clover		5

Attach:  
 Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: \_\_\_\_\_

Received  
 Office of Oil & Gas

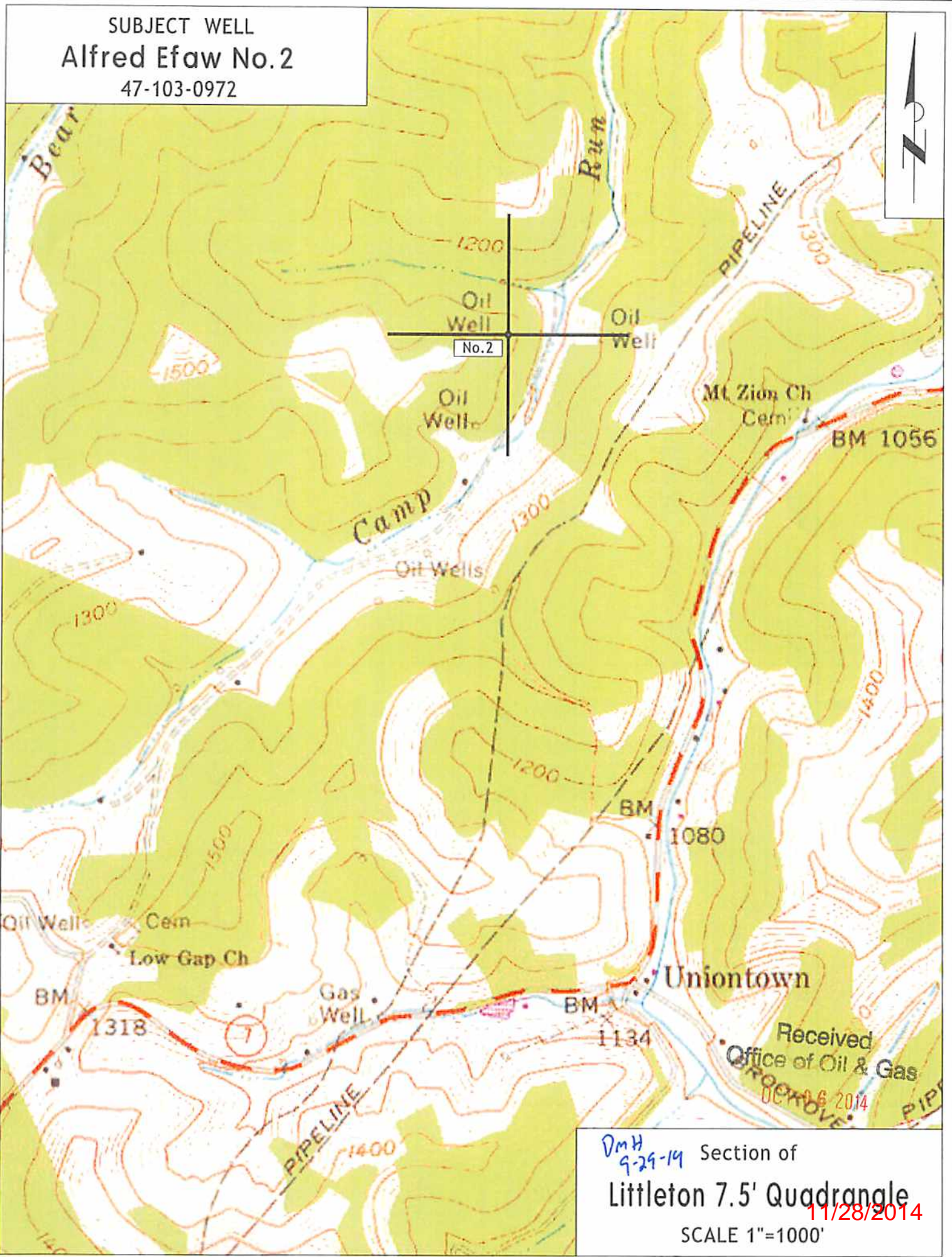
OCT 06 2014

Title: Oil + Gas Inspector Date: 9-29-14

Field Reviewed?  Yes  No



SUBJECT WELL  
Alfred Efaw No.2  
47-103-0972



DMH  
9-29-19 Section of  
Littleton 7.5' Quadrangle  
11/28/2014  
SCALE 1"=1000'

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Office of Oil & Gas  
OCT 06 2014

West Virginia Department of Environmental Protection  
Office of Oil & Gas

**WELL LOCATION FORM: GPS**

API: 47- 103 - 0972 WELL NO: No.2

FARM NAME: Alfred Efaw

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Wetzel DISTRICT: Center 1

QUADRANGLE: Littleton 7.5' 438

SURFACE OWNER: Steven & James Barbe

ROYALTY OWNER: HG Energy LLC et al.

UTM GPS NORTHING: 4,388,847

UTM GPS EASTING: 537,684 GPS ELEVATION: 384 m. 1260 Ft

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil & Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone:17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.
2. Accuracy to Datum - 3.05 meters
3. Data Collection Method:

Survey Grade GPS  Post Processed Differential   
 Real-Time Differential

Mapping Grade GPS  Post Processed Differential   
 Real-Time Differential

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Diane White Diane White  
Signature

September 4, 2014  
Date

Designated Agent  
Title

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Office of Oil & Gas  
OCT 06 2014



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

10300972P

CK 2769  
10000

September 16, 2014

Jeff McLaughlin  
WVDEP  
Division of Oil & Gas  
601 57<sup>th</sup> Street  
Charleston, West Virginia 25304

RE: Alfred Efaw No. 2 (47-103-00972)  
Center District, Wetzel County  
West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-4(A), WW-4(B), WW-9, and WW-7, topo map, well record, copy of certified mailing receipt and a check in the amount of \$100.00 to cover the permit fee to plug and abandon the above-captioned well.

Very truly yours,

*Diane White*

Diane C. White

Enclosures

cc: Steven & James Barbe – Certified  
Murray Coal Company - Certified  
Derek Haught - Inspector

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Office of Oil & Gas  
OCT 06 2014

11/28/2014