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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](http://www.dep.wv.gov)

November 12, 2014

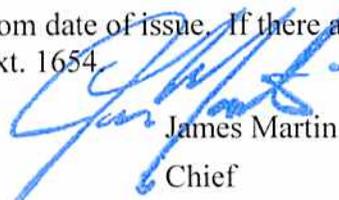
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-10300971, 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: 1

Farm Name: EFAW, A.

**API Well Number: 47-10300971**

**Permit Type: Plugging**

Date Issued: 11/12/2014

**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.

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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.

10300971A

WW-4B  
Rev. 2/01

1) Date September 16, 20 14  
2) Operator's  
Well No. Alfred Efav\*1  
3) API Well No. 47-103-00971

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 X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production X or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 1211' 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 - 3072'	Plug No. 1 - 3040' - 2940'
10"	365' pulled	Free point, cut & pull 5 3/16", est 2000'
8 1/4"	1469'	Plug No. 2 - 2450' - 2350'
6 5/8"	2043'	Plug No. 3 - 2050' - 1950'
5 3/16"	2402'	Free point, cut & pull 6 5/8", est 1450'
		Plug No. 4 - 1500' - 1400'
		Free point, cut & pull 8 1/4", est 1200'
6% gel between cement plugs	Office of Oil and Gas WV Dept. of Environmental Protection	Plug No. 5 - 1250' - 1150'

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If casing not removed across coals - pipe will be perforated Plug No. 6 - 1020' - 820' (coals)

Plug No. 7 400' - 300' cone

Plug No. 8 100' - 0

USE CLASS A CEMENT WITH  
NO MORE THAN 3% CaCl<sub>2</sub>

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 9-18-14

Well No. **6286** *Alfred Egan.* Farm.  
 Lease No. *Center Township* County *W. Va.*  
 Rig built by *P. C. Lee*  
 Well drilled by *Dudman Wilson* Contractor.  
 Began drilling *June 18 1907* Completed *Aug 29 1907*

*Per Formation (Sh. Cotton) Remarks*

Conductor			16	Start fm
Mississippi Sand	855			
Pittsburg "	971			971
Quincy Sand	1446	1456		1451
Gas "	1620	1650		1620
Salt "	1730			1650
atati	1860			2025
Second layer of salt	1915			2215
Marion Sand	2075			2302
Little Linn	2135	2150		2319
Big Linn	2150	2215		2374
Big Sandstone	2215	2302		2411
Stray "	3011			3016
Gas	3016			3040
Gordon Sand	3024			3054 1/2
Oil & Gas	3054 1/2			3072
2nd Part	3056			
atati	3057			
atati				3072

*2 2 1/2 hrs 1st 2nd hours*

100	Coring 365	Per cent 365	Left in	Shot 7-29-18-402
110	1469		1469	
151	2043-3		2043-3	
151 1/2	2402		2402	

*Sig. J. S. ...*

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Office of Oil and Gas  
 WV Dept. of Environmental Protection

*e/ev. 1211*

WW-4A  
Revised 6-07

1) Date: September 16, 2014  
2) Operator's Well Number  
Alfred Efaw 1  
3) API Well No.: 47 - 103 - 00971

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

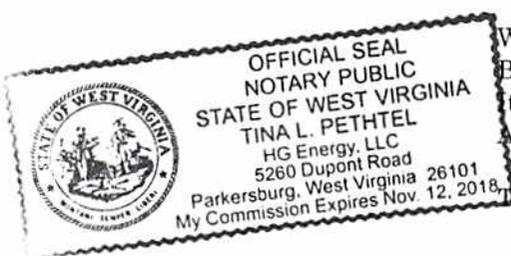
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Steven &amp; James Barbe</u>	Name <u>Murray Coal</u>
Address <u>60 May Lane</u>	Address <u>46226 National Road</u>
<u>Burton, WV 26562</u>	<u>St Clairsville, OH 43950</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	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	<u>HG Energy, LLC</u>
By:	<u>Diane White</u> <i>Diane White</i>
As:	<u>Agent</u>
Address	<u>5260 Dupont Road</u>
	<u>Parkersburg, WV 26105</u>
Telephone	<u>304-420-1119</u>

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SEP 23 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

Subscribed and sworn before me this 16 day of September 2014

My Commission Expires NOV 12 2018 Notary Public

**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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

7012 3460 0002 6850 6231

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For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
<b>OFFICIAL USE</b>	
Postage	\$ 1.40
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.40</b>



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

PS Form 3800, August 2006 See Reverse for Instructions

7012 3460 0002 6850 6224

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For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
<b>OFFICIAL USE</b>	
Postage	\$ 1.40
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.40</b>



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

PS Form 3800, August 2006 See Reverse for Instructions

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Office of Oil and Gas  
WV Dept. of Environment

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 1211' 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 20mil.

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  
9-18-14

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

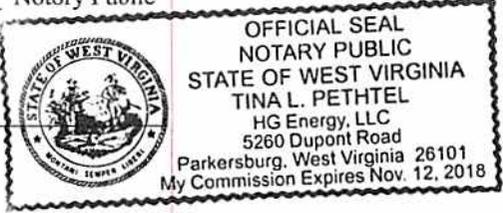
Company Official Title Agent

Subscribed and sworn before me this 16 day of September, 2014

[Signature]

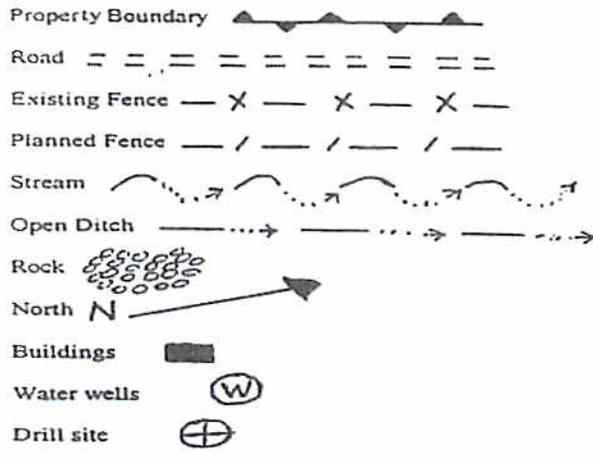
Notary Public

My commission expires NOV. 12. 2018

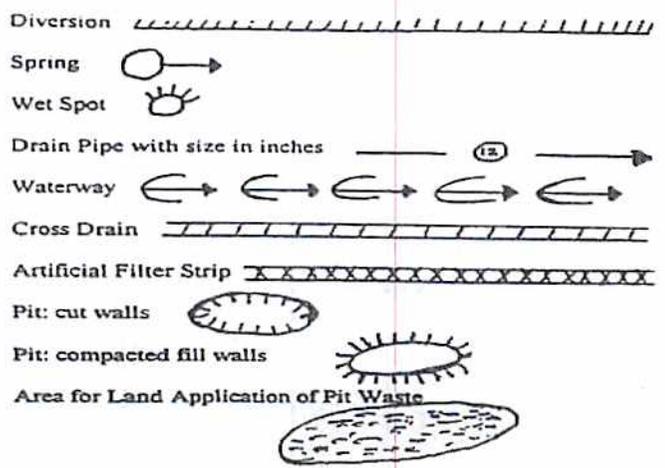


Form WW-9

Operator's Well No. \_\_\_\_\_



**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.

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Plan Approved by: [Signature]

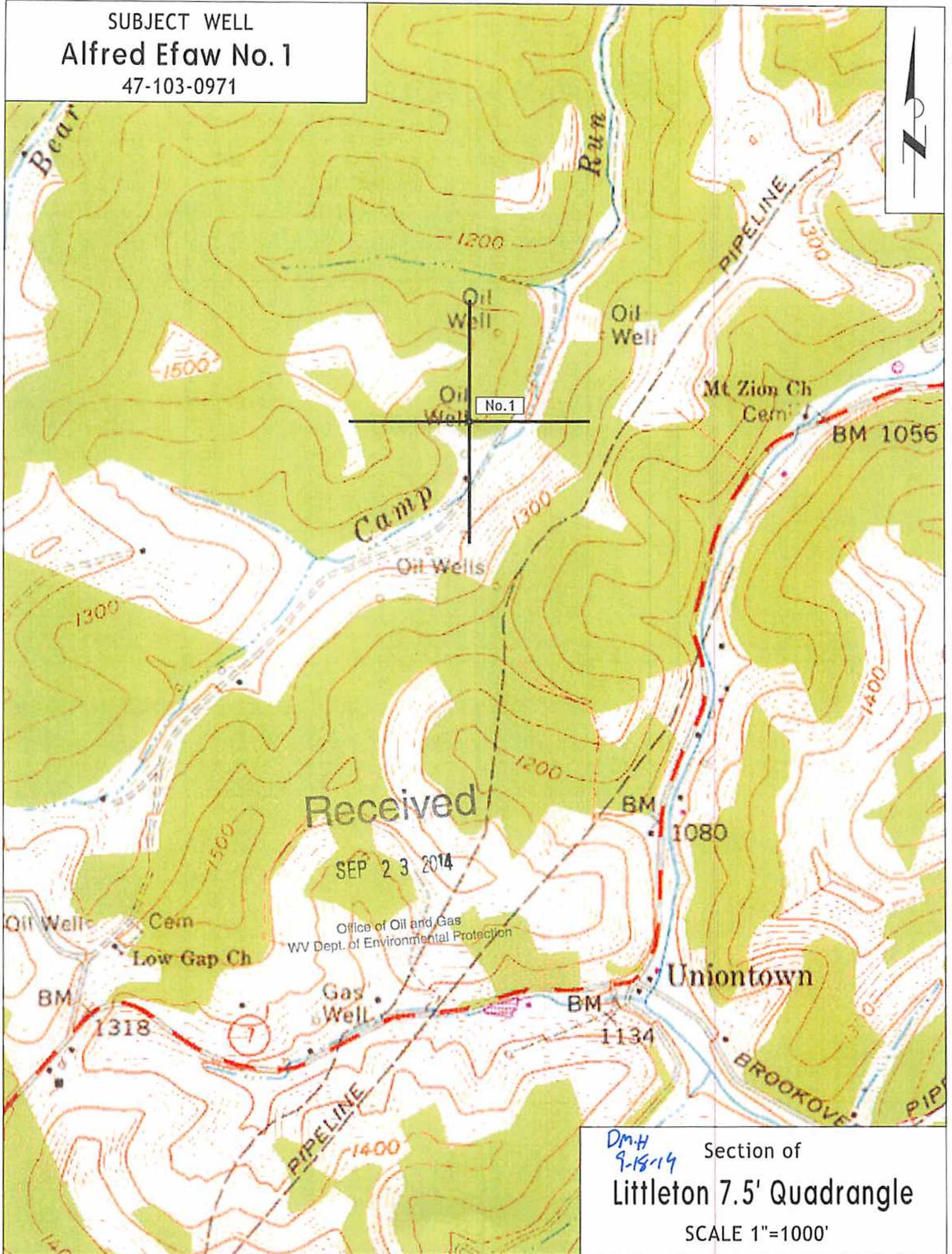
Office of Oil and Gas  
 WV Dept. of Environmental Protection

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

Title: Oil + Gas Inspector Date: 9-18-14

Field Reviewed? (  ) Yes (  ) No

SUBJECT WELL  
Alfred Efaw No. 1  
47-103-0971



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Office of Oil and Gas  
WV Dept. of Environmental Protection

DmH  
9-18-14

Section of  
Littleton 7.5' Quadrangle

SCALE 1"=1000'

West Virginia Department of Environmental Protection  
Office of Oil & Gas

**WELL LOCATION FORM: GPS**

API: 47- 103 - 0971 WELL NO: No.1

FARM NAME: Alfred Efaw

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Wetzel DISTRICT: Center

QUADRANGLE: Littleton 7.5'

SURFACE OWNER: Steven & James Barbe

ROYALTY OWNER: HG Energy LLC et al.

UTM GPS NORTHING: 4,388,620

UTM GPS EASTING: 537,585 GPS ELEVATION: 369 m. (1210')

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	<input type="checkbox"/>	Post Processed Differential	<input type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>
Mapping Grade GPS	<input checked="" type="checkbox"/>	Post Processed Differential	<input checked="" type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>

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Office of Oil and Gas  
WV Dept. of Environmental Protection

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

Designated Agent  
Title

September 4, 2014  
Date

10300971P



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

September 16, 2014

CK# 2768  
\$100<sup>00</sup>

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

RE: Alfred Efaw No. 1 (47-103-00971)  
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 and Gas  
WV Dept. of Environmental Protection