



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 12, 2014

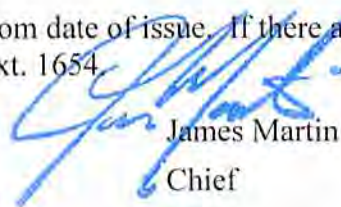
WELL WORK PLUGGING PERMIT

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.

11/14/2014

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.

CONDITIONS

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

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		Plug No. 5 - 1250' - 1150'

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Office of Oil and Gas
WV Dept. of Environmental Protection

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% CaCl₂

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

11/14/2014

Well No. **6286** *Alfred Egan.* Farm.
 Lease No. *Center Township* County *West*
 Rig built by *Paci*
 Well drilled by *Dudman* Contractor.
 Began drilling *June 18 1907* Completed *Aug 29 1907*

Per Formation (Sh. Cotton) Remarks

Conductor			16	Start fm
Mississippi Sand	885			
Pittsburg "	971			971
Quincy Sand	1446	1456		1451
Gas "	1620	1650		1620
Salt "	1730			1650
Atlati	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 Pay	3056			
Atlati	3057			
2nd Salt				

2 1/2 hrs 1st 2nd hours

100	Coring (Per cent) 365	Amber 365	Left in	Shot 7-29-18-409
110	1469.		1469	
151	2043-3		2043-3	
53/16	2402.		2402.	

Sig. J. S. ...

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Office of Oil and Gas
 WV Dept. of Environmental Protection

11/14/2014

elev. 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 & 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 _____
Telephone _____	Address _____

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*
 Agent
 Address 5260 Dupont Road
Parkersburg, WV 26105
 Telephone 304-420-1119

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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 depprivacyofficer@wv.gov.

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Postage	\$ 1.40
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.40



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

7012 3460 0002 6850 6224

U.S. Postal Service™
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OFFICIAL USE

Postage	\$ 1.40
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.40



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

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SEP 23 2014

Office of Oil and Gas
WV Dept. of Economic Development

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

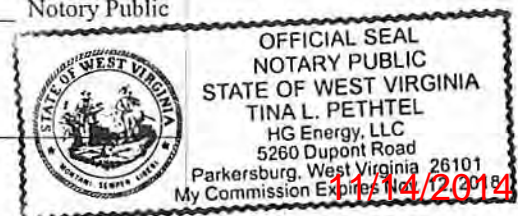
Company Official (Typed Name) Diane White

Company Official Title Agent

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

[Signature]

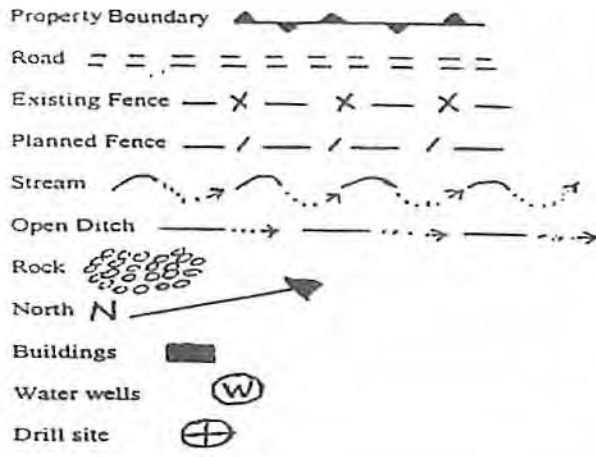
Notary Public



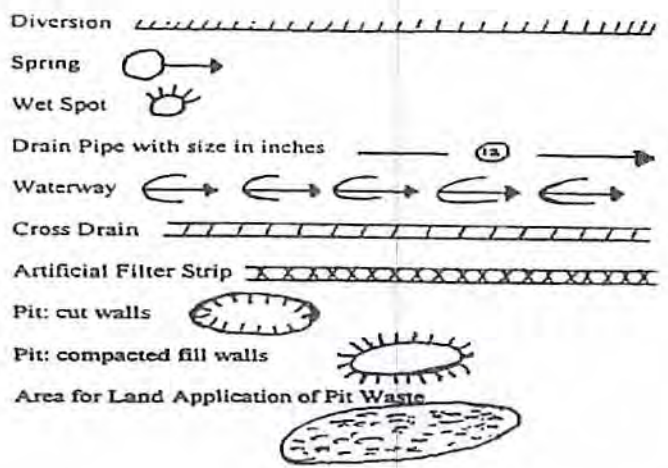
My commission expires NOV. 12. 2018

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]

City of Oil and Gas
WV Dept. of Environmental Protection

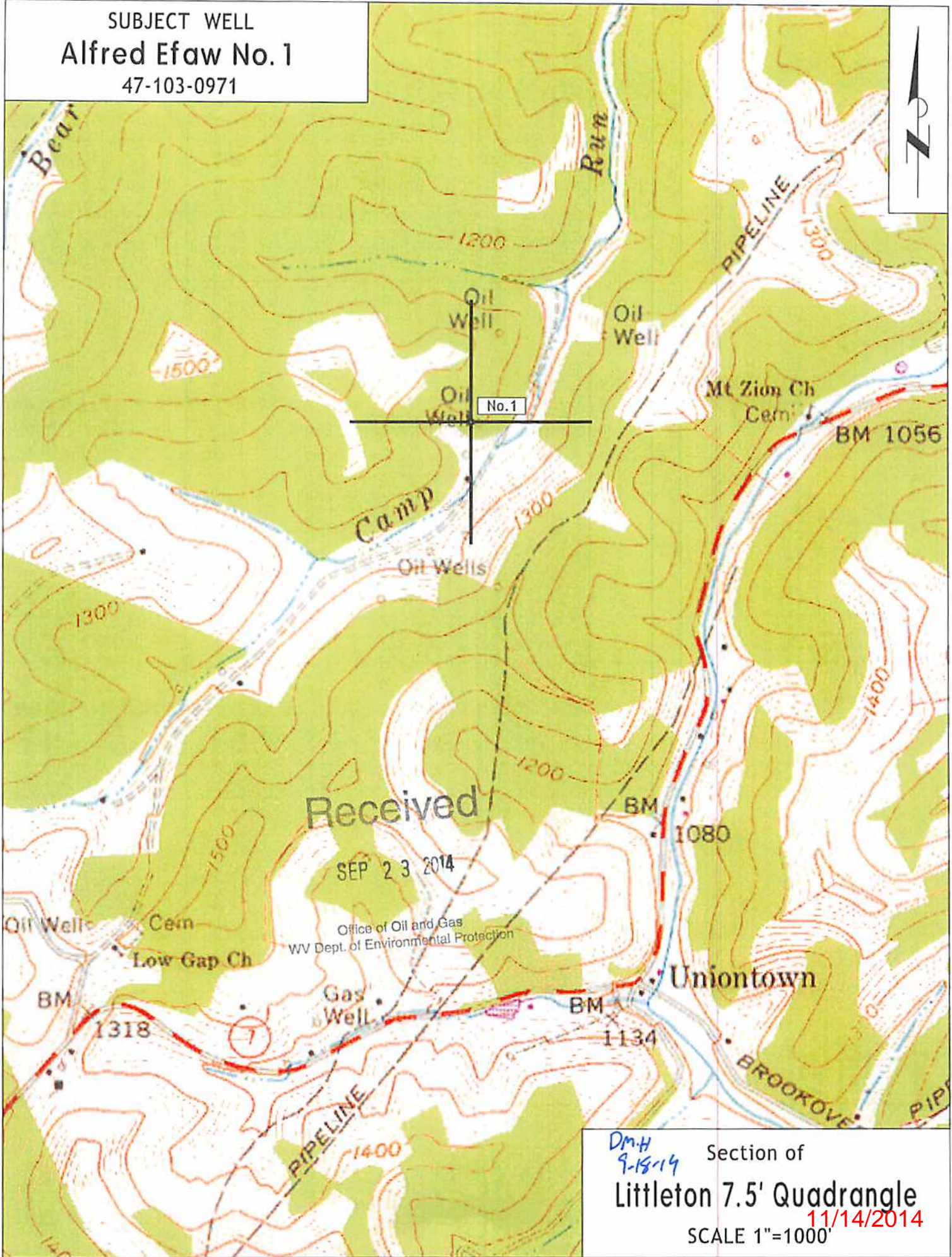
Comments: _____

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

11/14/2014

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
\$100⁰⁰

Jeff McLaughlin
WVDEP
Division of Oil & Gas
601 57th 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

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

Office of Oil and Gas
WV Dept. of Environmental Protection

11/14/2014