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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

June 30, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9501939, 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: EMALINE ASH 8

Farm Name: DAVIS, RAYMOND V. JR. & NORI

**API Well Number: 47-9501939**

**Permit Type: Plugging**

Date Issued: 06/30/2015

**Promoting a healthy environment.**

**07/03/2015**

## 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

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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.

9501939A

FW-4B  
Rev. 2/01

- 1) Date February 18, 2015
- 2) Operator's  
Well No. Esmaline Ash 8
- 3) API Well No. 47-28 -1822

**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 X / Gas \_\_\_\_\_ / Liquid injection \_\_\_\_\_ / Waste disposal \_\_\_\_\_  
(If "Gas, Production \_\_\_\_\_ or Underground storage \_\_\_\_\_) Deep \_\_\_\_\_ / Shallow X
- 5) Location: Elevation 1244' Watershed Indian Creek  
District McElroy County Tyler Quadrangle Centerpoint 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 Michael Goff  
Address P. O. Box 134  
Pullman, WV 26421
- 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:

Manner of Plugging:

- Plug No. 1 - 3115' - 3015'
- Free point, cut and pull 4 1/2" approx. 2200'
- Plug No. 2 - 2250' - 2150'
- Free point - Cut and pull 8 5/8" approx. 1800'
- Plug No. 3 - 1850' - 1750'
- Plug No. 4 - ~~1300'~~ - 1000' *JB*
- Plug No. 5 - 450' - 350'
- Plug No. 6 - 100' - 0'

6<sup>0</sup>/<sub>10</sub> Gel Between All Plugs

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

Work order approved by inspector

*Michael Goff*

Date

4-20-2015

Received  
Office of Oil & Gas

APR 29 2015

07/03/2015

Produced by 0016

9501939P

WR-35

API # 47 06/25/2007 ✓  
095 01939

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: DAVIS, RAYMOND & NORMA Operator Well No.: EMALINE ASH 8

LOCATION: Elevation: 1,247' Quadrange: CENTERPOINT 7.5'

District: MCELROY County: TYLER  
Latitude: 2,150 Feet south of 39 Deg 27 Min 30 Sec.  
Longitude: 7,125 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.  
P.O. BOX 5519  
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD  
Permit Issued: 06/25/07  
Well work Commenced: 07/30/07  
Well work Completed: 08/18/07

Verbal plugging permission granted on:  
Rotary X Cable Rig  
Total Depth (feet) 3295'  
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

Is coal being mined in area (Y/N) N  
Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	400'	400'	300 sks
8 5/8"	2337.5'	2337.5'	100 sks
4 1/2"	3251.8'	3251.8'	300 sks

TDS  
1400  
18 1/2  
9 1/2  
TDS  
1200  
-1700

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3128'-3148'  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATION, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

RECEIVED  
Office of Oil & Gas  
JAN 15 2010  
WV Department of  
Environmental Protection

For: EAST RESOURCES, INC  
By: [Signature]  
Date: 1/12/10

07/03/2015

Treatment : Not Completed

<u>Well Log :</u>			
	0	440	Sand and Shale
	440	452	Sand
	452	470	Shale
	470	492	Sand
	492	795	Shale
	795	808	Sand
	808	842	Shale
	842	861	Sand
	861	878	Shale
	878	955	Sand
	955	1117	Shale
	1117	1150	Sand
	1150	1262	Shale
	1262	1286	Sand
	1286	1345	Shale
	1345	1360	Sand
	1360	1483	Shale
	1483	1536	Sand
	1536	1584	Shale
	1584	1592	Sand
	1592	1692	Shale
	1692	1738	Sand
	1738	1798	Shale
	1798	1856	Sand
	1856	1902	Shale
	1902	1986	Sand
	1986	2004	Shale
	2004	2044	Sand
	2044	2115	Shale
	2115	2164	Sand
	2164	2188	Shale
	2188	2270	Sand
	2270	2288	Shale
	2288	2410	Big Lime
	2410	2252	Big Injun
	2252	3109	Shale
	3109	3128	Gordon Stray
	3128	3148	Gordon
	3148	3168	Sand/Shale
	3168	3295	Shale
	3295		TD

WR-35  
Rev. 8/23/13

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47 - 095 - 1939 County TYLER District MCELROY  
Quad CENTERPOINT 7.5' Pad Name EMALINE ASH Field/Pool Name STRINGTOWN  
Farm name DAVIS, RAYMOND V. JR. & NORMA S. Well Number 8  
Operator (as registered with the OOG) H.G. ENERGY LLC  
Address 5260 DuPONT ROAD City PARKERSBURG State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,367,026 M Easting 526,526 M  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1,244' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
N/A

Date permit issued 12/21/12 Date drilling commenced N/A Date drilling ceased N/A  
Date completion activities began 9/4/13 Date completion activities ceased 9/4/13  
Verbal plugging (Y/N) N Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft None Open mine(s) (Y/N) depths N  
Salt water depth(s) ft None Void(s) encountered (Y/N) depths N  
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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Reviewed by: \_\_\_\_\_

07/03/2015

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Rev. 8/23/13

API 47-095 - 1939 Farm name DAVIS, RAYMOND V. JR. & NORMA S. Well number 8

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor		11 3/4"	400'	Existing			Existing
Surface		8 5/8"	2337.5'	Existing			Existing
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production		4 1/2"	3251.8'	Existing			Existing
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Existing	300					
Surface	Existing	100					
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	Existing	300					
Tubing							

Drillers TD (ft) 3295 Loggers TD (ft) 3262  
 Deepest formation penetrated Garden Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) \_\_\_\_\_

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No  Conventional  Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING  
Existing

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

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API 47- 095 - 1939

Farm name DAVIS, RAYMOND V. JR. & NORMA S.

Well number 8

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	11/21/13	3122'	3167'	120	Gordon

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbbls)	Amount of Nitrogen/other (units)
1	9/4/13	10	2735	2221	2962	20,000	308	

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Please insert additional pages as applicable.



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Rev. 8/23/13

API 47- 095 - 1939 Farm name DAVIS, RAYMOND V. JR. & NORMA S. Well number 8

PRODUCING FORMATION(S)	DEPTHS	TVD	MD
Gordon & Gordon Stray		3109-3148	

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL-TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW Gas \_\_\_\_\_ mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	0		0		See original Well Record

Please insert additional pages as applicable.

Drilling Contractor \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Logging Company Appalachian Well Surveys  
Address 4973 Skyline Drive City Cambridge State OH Zip 43725

Cementing Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Stimulating Company Producers Service Corp.  
Address 109 South Graham Street City Zanesville State OH Zip 43701

Please insert additional pages as applicable.

Completed by Roger Heldman Telephone 304-420-4107  
Signature [Signature] Title \_\_\_\_\_ Date 11/26/12

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

Received  
Office of Oil & Gas  
APR 20 2015

Prepared for:  
HG Energy LLC.  
Dustin Hendershot



INVOICE #: 15211  
 WELL NAME: E. Ash 8  
 DATE of SERVICE: 9/4/2013  
 CUSTOMER PO#

Description	Notes	Amount	Uni
BLENDER CHARGE 0-10 BPM		1	E/
FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1	E/
MILEAGE CHARGE PER UNIT ONE WAY	2 Units @ 70 Mi.	140	MI
SAND 20/40 OTTAWA		200	CW
SAND DELIVERY / TON MILES	10 Tons @ 70 Mi.	700	TMI
IC ACID 15%		250	GA
PRO HIB II		0.5	GA
ACID DELIVERY		4	HF
PRO CLA LOK (KCL SUBSTITUTE)		20	GA
PRO NE-21		10	GA
PRO GEL 4		250	LE
BUFFER I		50	LE
BUFFER II		50	LE
BIO CLEAR 750		1	LE
AP BREAKER		22	LE
BXL-A		15	GA
BXL-10C		15	GA
DATA VAN		1	STA
		0	
		0	E/

Customer Approval: \_\_\_\_\_

Received  
Office of Oil & Gas  
APR 29 2015

9501939P

CK# 2948  
100.00

WW-4A  
Revised 6-07

1) Date: February 18, 2015  
2) Operator's Well Number  
Emaline Ash 8

3) API Well No.: 47 - 095 - 01939

**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>American Energy Partners, LLC</u>	Name <u>NA</u>
Address <u>P. O. Box 18756</u>	Address _____
<u>Oklahoma City, OK 73116</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NA</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Michael Goff</u>	(c) Coal Lessee with Declaration
Address <u>P. O. Box 134</u>	Name <u>NA</u>
<u>Pullman, WV 26421</u>	Address _____
Telephone <u>304-549-9823</u>	_____

**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>
Its	Agent
Address	<u>5260 Dupont Road</u>
Telephone	<u>Parkersburg, WV 26101</u>
	<u>304-420-1119</u>

Received  
Office of Oil & Gas  
APR 29 2015

Subscribed and sworn before me this 18th day of February, 2015  
S. Dianne Dulaney Notary Public  
My Commission Expires Oct 4 2016

**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).

07/03/2015

WW-9  
Rev. 5/08

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 095 - 01929  
Operator's Well No. Emaline Ash 8

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 Indian Creek Quadrangle Centerpoint 7.5'  
Elevation 1244' County Tyler District McElroy

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

Will a synthetic liner be used in the pit? Yes

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 \_\_\_\_\_ )

*M.D.G.*  
*4-20-2015*

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

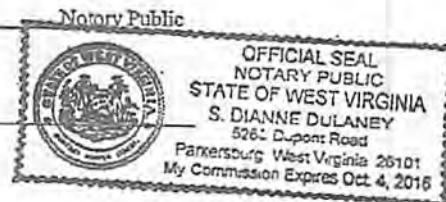
Company Official Title Agent

Received  
Office of Oil & Gas  
APR 29 2015

Subscribed and sworn before me this 18th day of February, 20 15

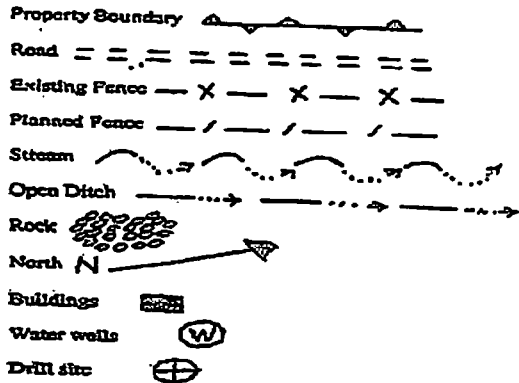
*[Signature]*

My commission expires Oct. 4, 2016

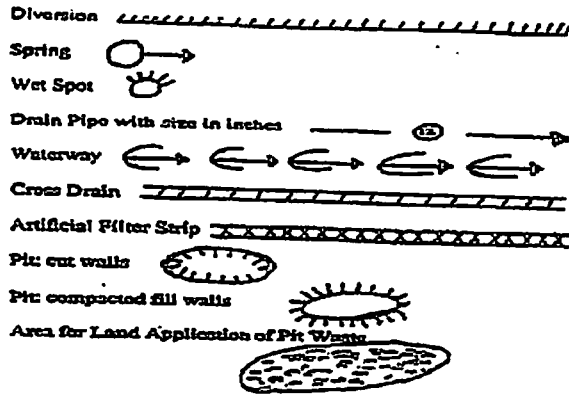


Form WW-9

Operator's Well No. Emaline Ash 8.



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
Tall Fescue		40
Ladino Clover		5

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

**\*\*Sediment Control 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.

Plan Approved by: Michael Hoff

Comments: Preseed + Mulch any disturbed areas

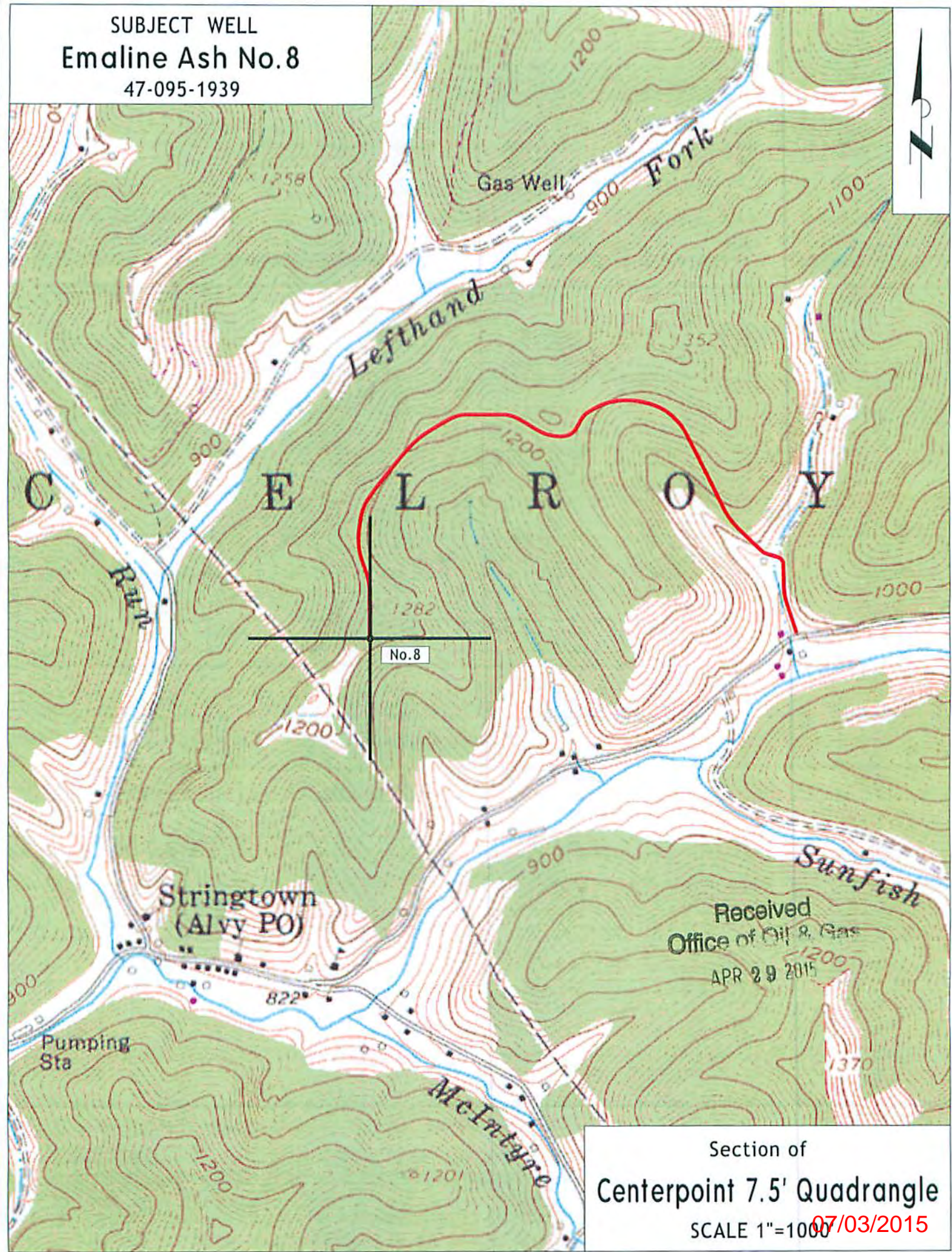
Title: Oil & Gas Ins Date: 4-20-2015

Field Reviewed?  Yes  No

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Office of Oil & Gas  
APR 29 2015

9501939P

SUBJECT WELL  
Emaline Ash No.8  
47-095-1939



Section of  
Centerpoint 7.5' Quadrangle  
SCALE 1"=1000  
07/03/2015

9501939P

WW-7  
5-02

West Virginia Department of Environmental Protection  
Office of Oil & Gas

**WELL LOCATION FORM: GPS**

API: 47- 095 - 1939 WELL NO: No.8

FARM NAME: Emaline Ash

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Tyler DISTRICT: McElroy

QUADRANGLE: Centerpoint 7.5'

SURFACE OWNER: American Energy Partners, LLC

ROYALTY OWNER: American Energy Partners, LLC et al.

UTM GPS NORTHING: 4,367,027

UTM GPS EASTING: 526,524 GPS ELEVATION: 380 m. (1244')

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 & Gas  
APR 29 2015

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

February 18, 2015  
Date

07/03/2015

I  
Now

Operator: HG ENERGY, LLC

API: 9501939

WELL No: EMALINE ASH 8

Reviewed by: [Signature] Date: 6/29/15

05 Day End of Comment: 05/11/15

APPROX 2900' SOUTH  
OF THESE COORDINATES

### CHECKLIST FOR FILING A PERMIT

#### Plugging

ck # 2948  
\$10000

- WW-4B
- Inspector signature on WW-4B
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee /Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

#### OR

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$100.00 check (~~\$0.00 if no pit~~)



9501939P

U.S. Postal Service™  
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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



EAB

Sent To  
 American Energy Partners  
 Street, Apt. No.;  
 or PO Box No. PO Box 18756  
 City, State, ZIP+4 Oklahoma City OK 73116

PS Form 3800, August 2006 See Reverse for Instructions

Received  
Office of  
APR 29 2014

07/03/2015