



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

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.

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.

Produced by O O G

9501939P

WR-35

API# 47 095 01939 06/25/2007 ✓

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
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

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

Received
Office of Oil & Gas
APR 29 2015

Reviewed by: _____

9501939P

WR-35
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 ³ /sks)	Volume (ft ³)	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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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 American Energy Partners, LLC	Name NA
Address P. O. Box 18756	Address
Oklahoma City, OK 73116	
(b) Name	(b) Coal Owner(s) with Declaration
Address	Name NA
	Address
(c) Name	Name
Address	Address
6) Inspector Michael Goff	(c) Coal Lessee with Declaration
Address P. O. Box 134	Name NA
Pullman, WV 26421	Address
Telephone 304-549-9823	

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 26101
 Telephone 304-420-1119

Received
Office of Oil & Gas
APR 29 2015

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

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 095 - 01939
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 _____)

MAG
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

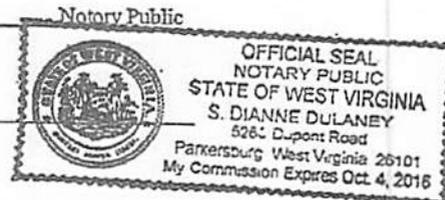
Received
Office of Oil & Gas

APR 29 2015

Subscribed and sworn before me this 18th day of February, 2015

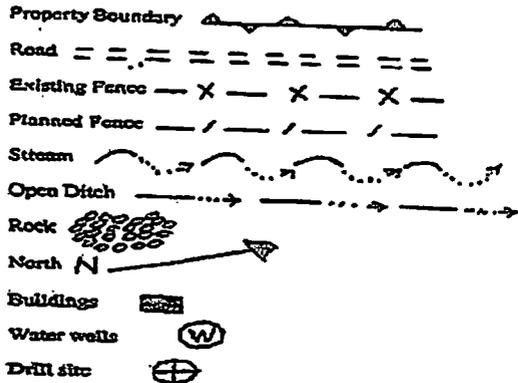
Dessie Dulaney

My commission expires Oct. 4, 2016

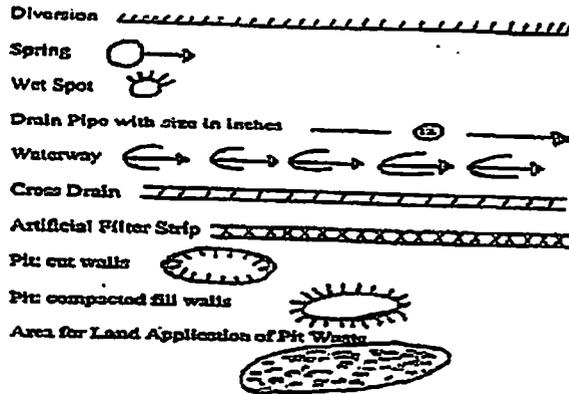


Form WW-9

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

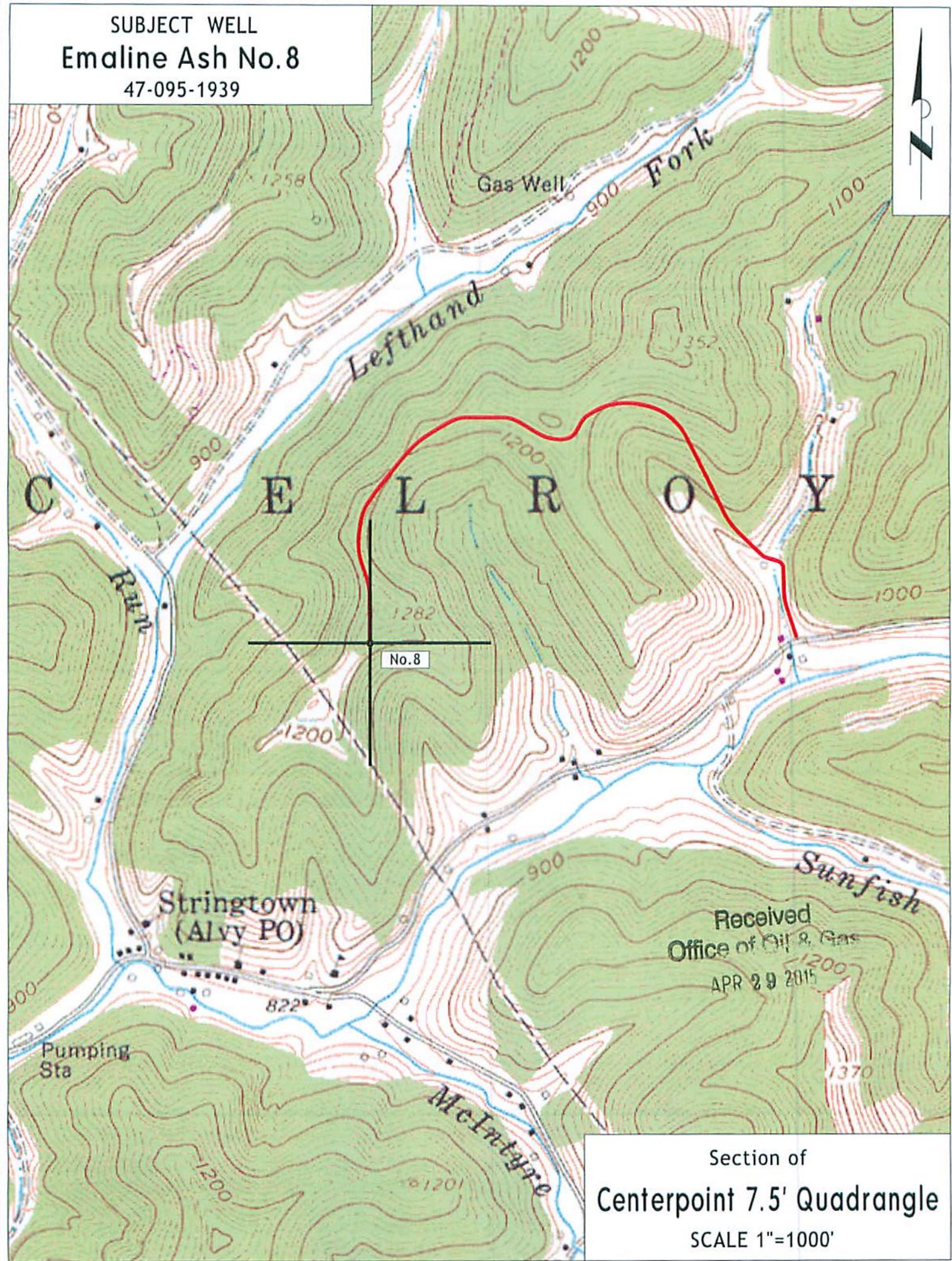
Date: 4-20-2015

Field Reviewed? Yes No

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9501939A

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



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APR 29 2015

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

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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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

I
Now

Operator: HG ENERGY, LLC

API: 9501939

WELL No: EMALINE ASH 8

Reviewed by: gawm Date: 6/29/15

05 Day End of Comment: 05/11/15

OPERATION 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

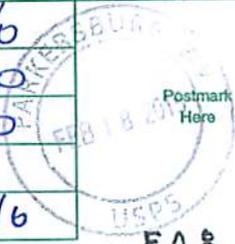
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Postage	\$ 1.40
Certified Fee	3.30
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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.40



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

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Office of
APR 29 2014