



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 29, 2015

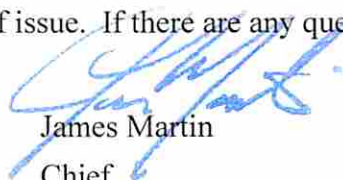
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9501656, 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: E. McINTYRE 11
Farm Name: GLOVER, FRED, ETAL
API Well Number: 47-9501656
Permit Type: Plugging
Date Issued: 06/29/2015

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

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.

9501656P

CK # 2954
\$100⁰⁰⁰

4709501 656 P

WW-4B
Rev. 2/01

1) Date February 20, 2015
2) Operator's
Well No. Enoch McIntyre 11
3) API Well No. 47-255 - 256

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 X / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow ___
- 5) Location: Elevation 1402' Watershed McIntyre Fork
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:
SPOT GEL FROM 3360 - 3200

Plug No. 1 - 3250' - 3150'

Free point, cut and pull 4 1/2" approx. 2325'

Plug No. 2 - 2375' - 2275'

Plug No. 4 - 1000' - 900'

Plug No. 5 - 710' - 610'

Plug No. 6 - 100' - 0'

Plug No. 3 1450' - 1350'
JS

*6% gel between
all plugs.*

SET MONUMENT PER WV STATE CODE.

Received
Office of Oil & Gas
APR 29 2015

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

07/03/2015

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

COPY

Well Operator's Report of Well Work

Farm name: GLOVER, FRED, ETAL

Operator Well No.: E. MCINTYRE 11

LOCATION: Elevation: 1402'

Quadrangle: CENTERPOINT 7.5'

District: MCELROY
Latitude: 11,600 Feet south of
Longitude: 7,920 Feet west of

County: TYLER
39 Deg 27 Min 30 Sec.
80 Deg 40 Min 00 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: JOE TAYLOR

Permit Issued: 01/20/10

Well work Commenced: 04/06/10

Well work Completed: 04/08/10

Verbal plugging permission granted on:

Rotary X Cable Rig

Total Depth (feet) 3,426

Fresh water depths (ft) N/A

Salt water depths (ft) NA

Is coal being mined in area (Y/N) N

Coal Depths (ft): 948'-954

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	659.00'	659.00'	280 sks
4 1/2"	3360.80'	3360.80'	275 sks

OPEN FLOW DATA * WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 3266'-3297'

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 STIMULATING, 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

For: EAST RESOURCES, INC.

By: [Signature]
Date: 5/14/10

APR 20 2015

07/03/2015

9501656P

Treatment:

Perforations:

3270' - 3274' - 4 holes/ft (16 holes)

Treatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 211 bbls.

Borate cross-linked gelled water and 10,300 lbs. of 20/40 sand.

Well Log:

TD = 3426'

Sand & Shale	0	-	616
Sand	616	-	646
Shale	646	-	948
Pittsburg Coal	948	-	954
Shale	954	-	1040
Sand	1040	-	1094
Shale	1094	-	1208
Sand	1208	-	1224
Shale	1224	-	1262
Sand	1262	-	1298
Shale	1298	-	1740
Sand	1740	-	1748
Sand & Shale	1748	-	2413
Shale	2413	-	2437
Sand	2437	-	2457
Big Lime	2457	-	2522
Big Injun	2522	-	2686
Shale	2686	-	3213
Gordon	3213	-	3232
Shale	3232	-	3241
Sand	3241	-	3249
Shale	3249	-	3426

Received
Office of Oil & Gas
APR 29 2015

07/03/2015

9501656P

CK# 2954
100.00

WW-4A
Revised 6-07

1) Date: February 20, 2015
2) Operator's Well Number
Enoch McIntyre 11

3) API Well No.: 47 - 095 - 01656

**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>Forrest Glover</u>	Name <u>NA</u>
Address <u>HC 62, P. O. Box 53</u>	Address _____
<u>Alvy, WV 26322</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>	_____

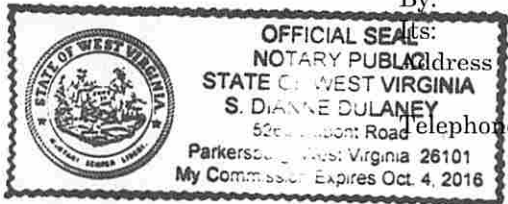
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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 HG Energy, LLC
 By: Diane White *Diane White*
 Agent
 5260 Dupont Road
 Parkersburg, WV 26101
 304-420-1119



Received
Office of Oil & Gas
APR 29 2015

Subscribed and sworn before me this 20th day of February, 2015
S. Diane 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 depprivacyoffier@wv.gov.

07/03/2015

9501656P

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U.S. Postal Service™	
CERTIFIED MAIL™ RECEIPT	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>	
For delivery information visit our website at www.usps.com ®	
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

Postmark Here
FEB 23 2015
EM11

Sent To	Forrest Glover
Street, Apt. No., or PO Box No.	HC 62, Box 53 ✓
City, State, ZIP+4	Alvy, WV 26322

PS Form 3800, August 2006 See Reverse for Instructions

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Office of Oil & Gas
APR 29 2015

07/03/2015

9501656 P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 095 - 01656
Operator's Well No. ~~01656~~ Enoch McIntyre 11

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 1402' 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 2.0mil.

MAG
4/20/2015

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 _____)

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

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APR 29 2015

Subscribed and sworn before me this 20th day of February, 2015

[Signature]

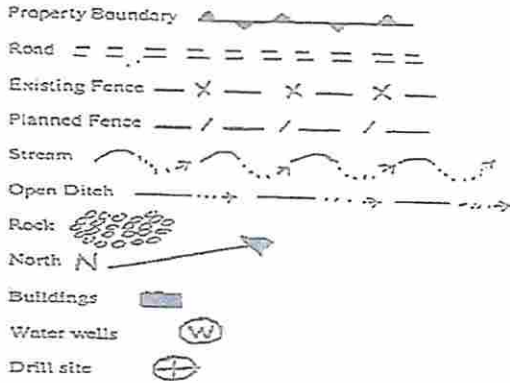
My commission expires Oct 4 2016



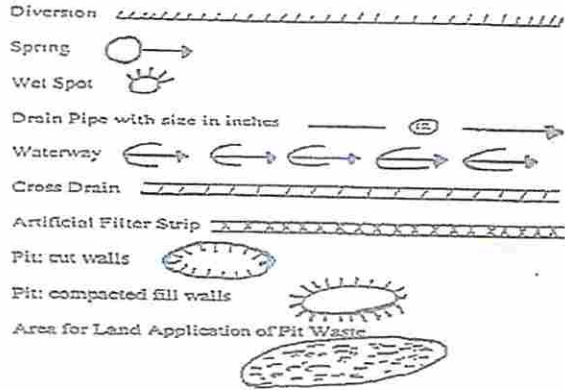
07/03/2015

Form WW-9

Operator's Well No. Enoch McIntyre 11



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

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

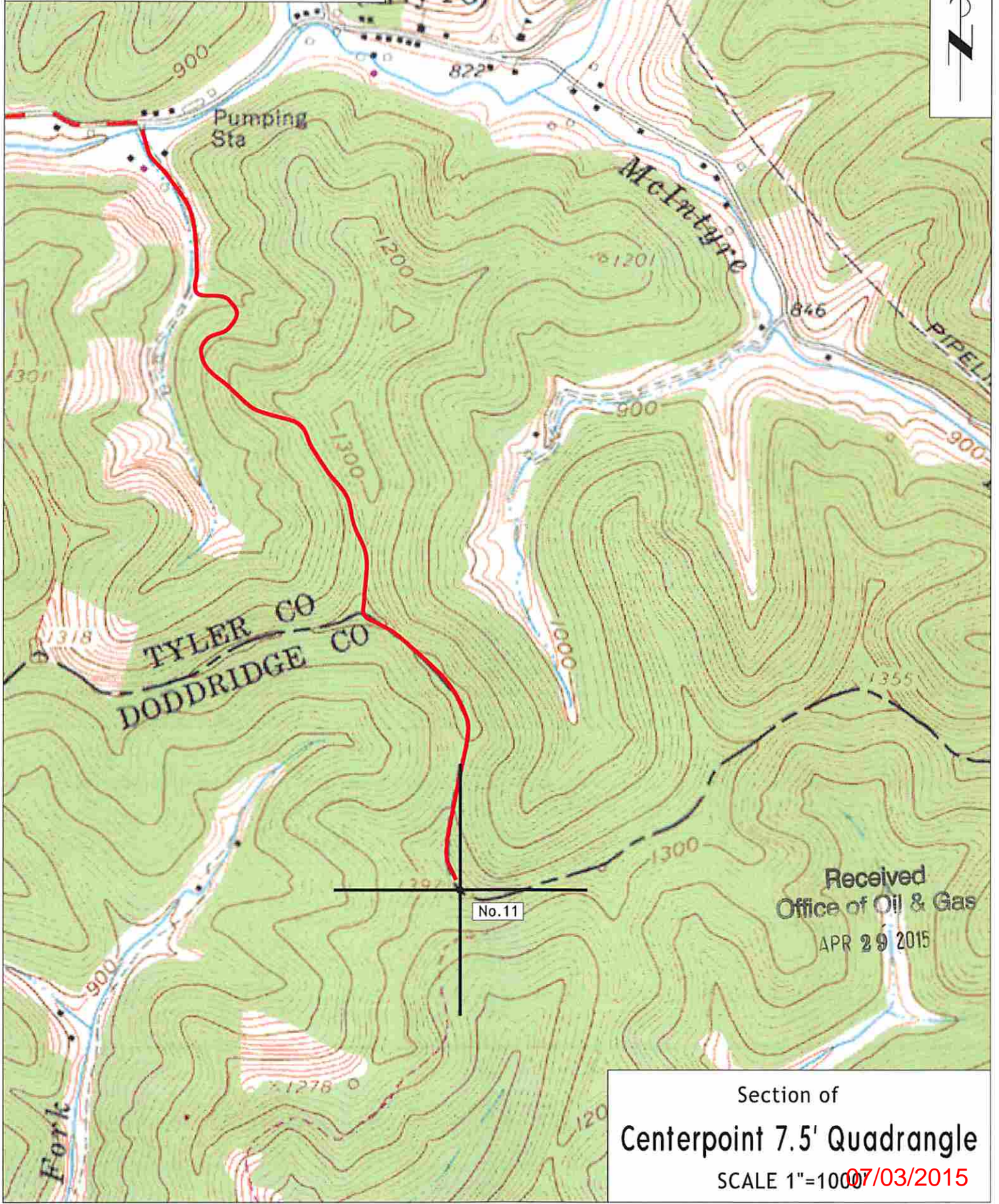
Plan Approved by: Michael Laff
 Comments: Approved & Mulch any disturbed areas

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Office of Oil & Gas
APR 29 2015

Title: Oil & Gas Inspector Date: 4/20/2015
 Field Reviewed? Yes No

SUBJECT WELL
Enoch McIntyre No. 11
47-095-1656

ingtown
Ivy PO)



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APR 29 2015

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

West Virginia Department of Environmental Protection
Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47- 095 -01656 WELL NO: No.11

FARM NAME: Enoch McIntyre

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Tyler DISTRICT: McElroy

QUADRANGLE: Centerpoint 7.5'

SURFACE OWNER: Forrest Glover Jr.

ROYALTY OWNER: American Energy Partners LLC, et al.

UTM GPS NORTHING: 4,364,153

UTM GPS EASTING: 526,294 GPS ELEVATION: 426 m. (1397)

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"/>

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

February 19, 2015
Date

Designated Agent
Office of Oil & Gas
Title

APR 29 2015

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Office of Oil & Gas

I
Now

Operator: HG ENERGY, LLC

API: 9501656

WELL No: E. McINTYRE 11

Reviewed by: JWM Date: 6/23/15

15 Day End of Comment: 05/04/15

CHECKLIST FOR FILING A PERMIT

Plugging

CK # 2954
\$100.00

- 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)

07/03/2015