



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

August 27, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10301540, 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.

A blue ink signature of James Martin.

James Martin
Chief

Operator's Well No: F. L. HOGE H-14
Farm Name: WVA. PUBLIC LAND CORP.
API Well Number: 47-10301540
Permit Type: Plugging
Date Issued: 08/27/2014

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.

1) Date: July 2, 2014
2) Operator's Well Number F. L. Hoge No. H-14
3) API Well No: 47 - 103 - 1540
State County Permit

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 _____ Underground Storage _____) Deep _____ Shallow _____
5) LOCATION: Elevation: 1359' Watershed: Cale Run
District: Green County: Wetzel Quadrangle Centerpoint 7.5'
6) WELL OPERATOR: HG Energy, LLC 4.94E+08 7) DESIGNATED AGENT Micheal G. Kirsch
Address 5260 Dupont Road Address P.O. Box 5519
Parkersburg, WV 26101 Vienna, WV 26105-5519
8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) PLUGGING CONTRACTOR
Name Derek Haught Name To Be Determined Upon Approval of Permit
Address P. O. Box 85 Address _____
Smithville, WV 26178

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

CASING	
8 5/8"	606'
4 1/2"	3,313.8'

TD- 3,336'
Plug No. 1 3,250" - 3,150' (Tag)
Rip 4 1/2" casing - rip and pull free (est 1720')
Plug No. 2 1,770' - 1,670'
Plug No. 3 1,400' - 1,300'
Plug No. 4 1,220' - 1,120'
Plug No. 5 650' - 550'
Plug No. 6 100' - 0'

GEL SPACERS MUST FILL ENTIRE PORTION OF WELLBORE THAT IS NOT CLASS A CEMENT.
GEL SPACER IS DEFINED AS FRESH WATER WITH A MINIMUM OF 6% BENTONITE (BY WEIGHT).

Cement Plugs are Class A, Regular Neat Cement
Cement tops will be tagged
All attempts will be made to recover as much casing and tubing as possible

DAH
7-9-14

OFFICE USE ONLY

PLUGGING PERMIT

Permit Number _____ Date _____ 19____

This permit covering the well operator and the well location shown below is evidence of permission granted to plug in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector 24 hours before actual work has commenced.

The permitted work is as described in the Notice and Application, plat, subject to any modifications and conditions on the reverse hereof.

Permit expires _____ unless plugging is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	WPCP	Other
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RECEIVED
Office of Oil and Gas

Chief, Office of Oil and Gas 2014

NOTE: Keep one copy of this permit posted at the plugging location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

WV Department of
Environmental Protection

08/29/2014

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

Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LAND CORP. Operator Well No.: F.L. HOGE H-14

LOCATION: Elevation: 1,359.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 9250 Feet South of 39 Deg. 30Min. Sec.
Longitude 7200 Feet West of 80 Deg. 40 Min. Sec.

Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: RANDAL MICK
Permit Issued: 05/12/93
Well work Commenced: 08/23/93
Well work Completed: 09/16/93
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3336
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
8-5/8"	606'	606'	200 sks.
4-1/2"	3313.80'	3313.80'	300 sks.

OPEN FLOW DATA (Water Injection Well)

Producing formation Gordon Pay zone depth (ft) 3240-3285
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.

For: PENNZOIL PRODUCTS COMPANY RECEIVED
Office of Oil and Gas

By: Timothy P. Roush, Supervisor - Surveying/Mapping
Date: September 15, 1993

WV Department of Environmental Protection
08/29/2014

Treatment

Perforated: Gordon from 3246' - 3254' (16 holes)

Treated: w/290 bbls. of gelled water, 1500# of 80/100 sand
and 3500# of 20/40 sand.

Well Log

Sand & Shale	0 - 674
Shale	674 - 795
Sand	795 - 822
Shale	822 - 904
Limestone & Shale	904 - 1008
Limestone	1008 - 1056
Shale	1056 - 1174
Limestone	1174 - 1184
Sand & Shale	1184 - 1394
Shale	1394 - 1594
Sand	1594 - 1650
Shale	1650 - 1775
Sand	1775 - 1838
Sand & Shale	1838 - 1980
Sand	1980 - 2010
Sand & Shale	2010 - 2205
Sand	2205 - 2236
Shale	2236 - 2364
Little Lime	2364 - 2377
Shale	2377 - 2390
Blue Monday	2390 - 2410
Big Lime	2410 - 2464
Big Injun	2464 - 2650
Shale	2650 - 3240
Gordon	3240 - 3285
Total Depth	3390'

10301540P

WW-4A
Revised 6-07

1) Date: July 2, 2014
2) Operator's Well Number F. L. Hoge No. H-14
3) API Well No: 47 - 103 - 1540
State County Permit

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

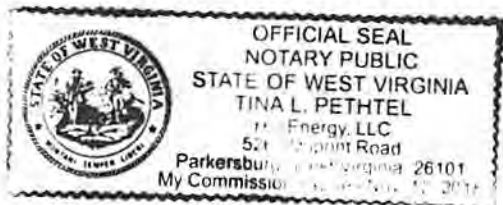
4) Surface Owner(s) to be served:	5) (a) Coal Operator:
(a) Name <u>WV Public Lands Corporation</u>	Name <u>NA</u>
Address <u>State Capital Complex - Bld 3, Rm 643</u>	Address _____
<u>Charleston, WV 25305</u> ✓	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NA</u>
_____	Address _____
(c) Name _____	_____
Address _____	Name _____
_____	Address _____
_____	<u>NA</u>
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>P. O. Box 85</u>	Name <u>NA</u>
<u>Smithville, WV 26178</u>	Address _____
Telephone <u>304-206-7613</u>	_____

TO THE PERSON(S) 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 and its location and the plugging work order; and
- 2) The plat (surveyor's map) showing the well location on Form WW-6

The reason you have received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse 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 C White

Its: Accountant

Address 5260 Dupont Road
Parkersburg, WV 26101

Telephone (304) 420-1119

Subscribed and sworn before me this 2 day of July 2014

Tina L. Pethel
Notary Public

My Commission Expires Nov 12, 2018

RECEIVED
Office of Oil and Gas
JUL 11 2014
Notary Public
WV Department of
Environmental Protection

08/29/2014

7012 3002 0002 3568 5775

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

OFFICIAL USE

Postage	\$ 11.27
Certified Fee	33.70
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	10.10
Total Postage & Fees	\$ 68.77

Postmark Here
07/02/2014
FLH H-14

Sent To WV Public Lands Corp
 Street, Apt. No.; or PO Box No. State Capital Complex, B3-R643
 City, State, ZIP+4 Charleston WV 25305
 PS Form 3800, August 2006 See Reverse for Instructions

FOR PERMIT F L HOGE # H-14
 Working Together, Building Success.
 BANK Peoples 800.374.6123 peoplesbankcorp.com
 One Hundred Dollars and 00/100
 PAY TO THE ORDER OF WV D.E.P.
 \$ 100.00 DOLLARS
 DATE 7-2-2014
 HG ENERGY, LLC 304-422-6565
 6260 DUPONT RD PARKERSBURG, WV 26101
 03-11
 56-250/42 2705

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JUL 11 2014
WV Department of
Environmental Protection
08/29/2014

103015408

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 HG Energy, LLC OP Code 494497948
Watershed Cale Run Quadrangle _____ Centerpoint 7.5'
Elevation 1359' County Wetzel District Green
Description of anticipated Pit Waste: Fluids encountered in plugging subject well
Will a synthetic liner be used in pit? Yes Size of Liner? 20 mil

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 _____)

Drilling medium anticipated for this well? Air, fresh water, oil based, NA
- If oilbased, what type? Synthetic, petroleum, etc. _____

Additives to be used? Water, soap, KCI
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA
- If left in pit and plan to solidify, what medium will be used? Cement, lime, sawdust
- Landfill or offsite name/permit number? NA

DAH
7-9-14

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 C White
Company Official (Typed Name) Diane C White
Company Official Title Accountant

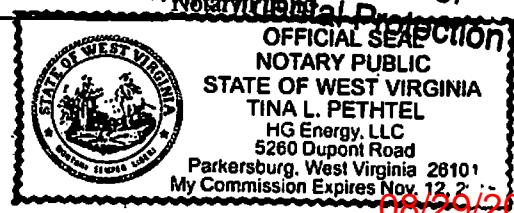
RECEIVED
Office of Oil and Gas

Subscribed and sworn before me this 2 day of July 2014

JUL 11 2014

Tina L. Pettel
Nov 12, 2018

My commission expires _____



08/29/2014

Legend

Property Boundary		Diversion	
Road		Spring	
Existing Fence		Wet Spot	
Planned Fence		Drain Pipe	
Stream		Waterway	
Open Ditch		Cross Drain	
Rock		Filter Strip	
North		Pit: Cut Walls	
Buildings		Pit: Compacted Fill Walls	
Water Wells		Area of Land Application of Pit Waste	
Drill Site			

Proposed Revegetation Treatment: Acres Disturbed Area I Approx. 0.5 Ac. Prevegetation pH _____

Area II Approx. 0.1 Ac.

Lime 2 Tons/Acre or Correct to pH 6.5
 Fertilizer (10-20-20 or Equivalent) 500 Lbs./Acre (500 lbs. Minimum)
 Mulch Straw 2 Tons/Acre

SEED MIXTURES

<u>Area I (Location)</u>	
Seed Type	Lbs./Ac.
Tall Fescue	<u>40</u>
Ladino Clover	<u>5</u>

<u>Area II (Road)</u>	
Seed Type	Lbs./Ac.
Tall Fescue	<u>40</u>
Ladino Clover	<u>5</u>

Attach:
 Drawing(s) of road, location, pit and proposed area for land application
 Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:

Comments: _____

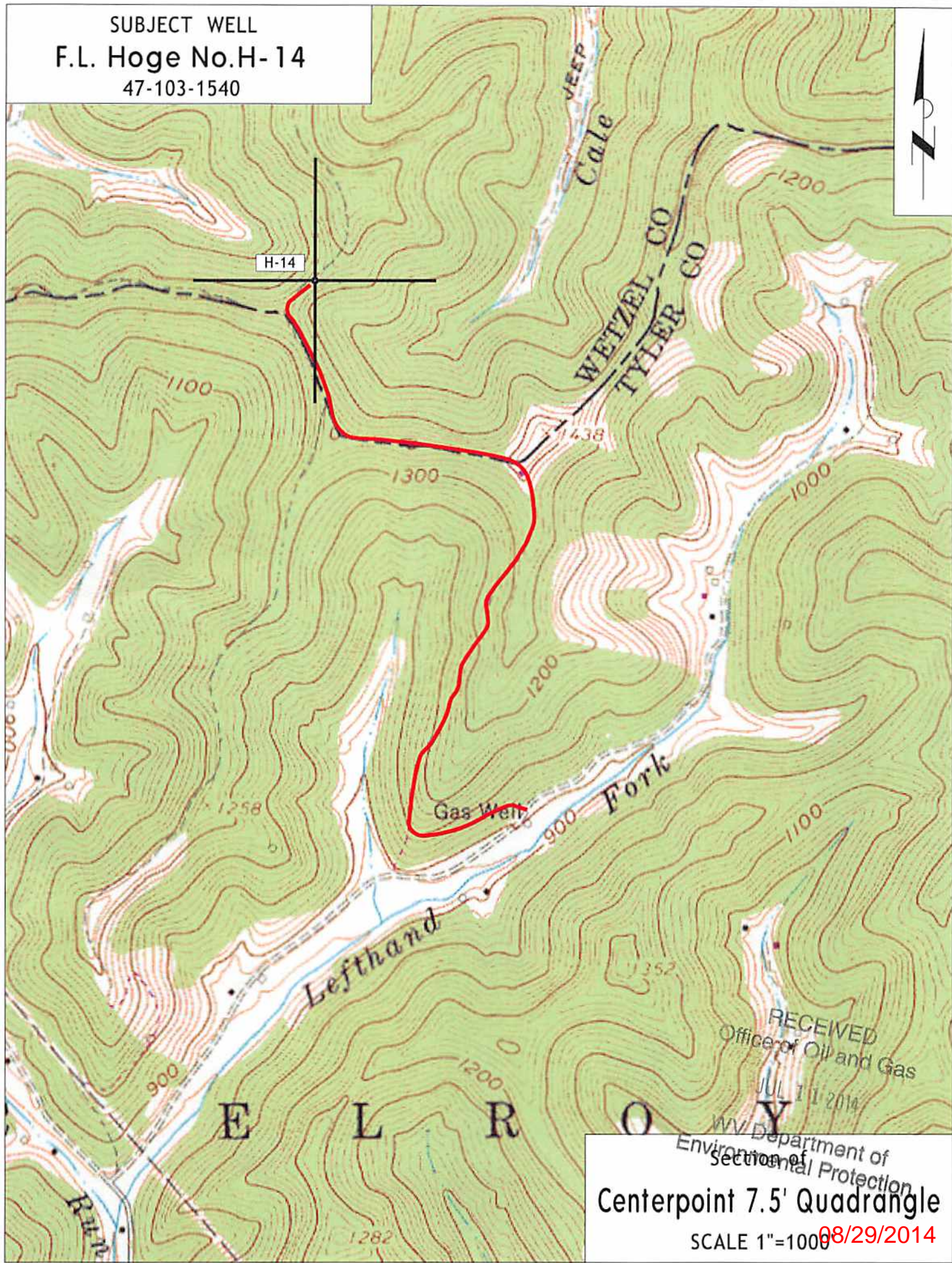
Title: Oil & Gas Inspector

Date: 7-9-14

Field Reviewed? Yes

_____ No

SUBJECT WELL
F.L. Hoge No.H-14
47-103-1540



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Office of Oil and Gas
JUL 11 2014
WV Department of
Environmental Protection
Centerpoint 7.5' Quadrangle
SCALE 1"=1000' 08/29/2014

10301540P

WW-7
8-30-06

West Virginia Department of Environmental Protection
Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47- 103 - 1540 WELL NO: No.H-14

FARM NAME: F.L. Hoge

RESPONSIBLE PARTY NAME: H.G. Energy, LLC

COUNTY: Wetzel DISTRICT: Green 5

QUADRANGLE: Centerpoint 7.5' 246

SURFACE OWNER: W.Va. Public Lands Corp.

ROYALTY OWNER: HG Energy, LLC et al.

UTM GPS NORTHING: 4,369,490 (NAD 83)

UTM GPS EASTING: 526,492 (NAD 83) GPS ELEVATION: 412 m.

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 C White Diane C White
Signature

June 26, 2014
Date

RECEIVED
Office of Oil and Gas
JUL 11 2014
WV Department of Environmental Protection
Designated Agent
Title

08/29/2014



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

CK 2705
10000

10301540A

July 2, 2014

Mr. Jeff McLaughlin
WVDEP
Division of Oil & Gas
601 57th Street
Charleston, West Virginia 25304

RE: F. L. Hoge No. H-14 (47-103-1540)
Green 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:

WV Public Lands Corporation – Certified
Derek Haught - Inspector

RECEIVED
Office of Oil and Gas
JUL 11 2014
WV Department of
Environmental Protection

08/29/2014