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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](http://www.dep.wv.gov)

December 12, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-10301710, 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: L. S. HOYT 107  
Farm Name: DALLISON LUMBER COMPANY  
**API Well Number: 47-10301710**  
**Permit Type: Plugging**  
Date Issued: 12/12/2014

**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

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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.

WW-4B  
Rev. 2/01

1) Date September 29, 2014  
2) Operator's  
Well No. LS Hoyt 107  
3) API Well No. 47-103-1710

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 1440' Watershed Fishing Creek Run  
District Grant County Wetzel Quadrangle Pine Grove 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 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: TD - 3503' Plug No. 1 - 3410' - ~~3340'~~ 3210' (200')  
8 5/8" 1270' Freepoint, cut & pull 4 1/2", est 2000'  
4 1/2" 3486' Plug No. 2 - 2050' - 1950'  
Plug No. 3 - 1320' - 1220'  
Plug No. 4 - 100' - 0'

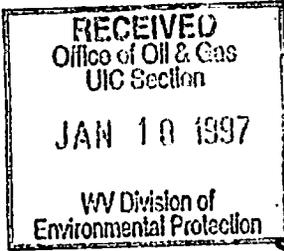
6% gel between cement plugs  
SET MONUMENT PER WV COOR.

Received  
Office of Oil & Gas  
NOV 07 2014

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 10-16-14

WR-37  
(REV. 9/94)



Date: January 8, 19 97  
Operator's  
Well No. L. S. Hoyt #107  
API No. 47 - 103 - 1710

uic ✓  
uicmit ✓

STATE OF WEST VIRGINIA  
BUREAU OF ENVIRONMENT, OFFICE OF OIL AND GAS  
PRE-OPERATION CERTIFICATE  
FOR LIQUID INJECTION OR WASTE DISPOSAL WELL

WELL OPERATOR Pennzoil Products Co.  
Address P. O. Box 5519  
Vienna, WV 26105-5519

DESIGNATED AGENT Philip S. Ondrusek  
Address P. O. Box 5519  
Vienna, WV 26105-5519

GEOLOGICAL TARGET FORMATION Gordon Depth 3378 feet(top) to 3387 feet(bottom)  
Virgin reservoir pressure in target formation 80 psig  
Source of information on virgin reservoir pressure: Estimated  
Perforation intervals 3383'-3387' Open-hole intervals \_\_\_\_\_

MAXIMUM PERMITTED INJECTION OPERATIONS  
Well head injection pressure: 867 psig Bottom hole pressure: 2332 psig  
Volume per hour: 60 Bbls.

DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED  
Liquids to be injected for oil recovery: Fresh water and produced water from waterflood operations.  
Wastes to be disposed of: \_\_\_\_\_  
Additives (Slurry mediums, inhibitors, solvents, oxidizers, deoxidizers, etc.)  
Bactericides and other chemicals as necessary to maintain water quality  
or improve oil recovery.

SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL \_\_\_\_\_

ADDITIONAL DRILLING AS PART OF THE CONVERSION (Complete form WR-35)

DETAILS ON NEW CASING AND TUBING PROGRAM AS PART OF THE CONVERSION (To be completed below unless the new casing and tubing program is described on a form WR-35, submitted in connection with the permit to which this form WR-37 relates.)

CASING OR TUBING TYPE	SIZE	GRADE	WEIGHT PER FT.	NEW	USED	FOOTAGE USED IN DRILLING	FOOTAGE LEFT IN WELL	CEMENT USED	PACKERS (KIND, SIZE & DEPTH SET)
CONDUCTOR									
FRESH WATER	<u>8-5/8</u>		<u>20&amp;23</u>	<u>X</u>		<u>1381</u>	<u>1381</u>	<u>to Surface</u>	
COAL									
INTERMEDIATE									
PRODUCTION	<u>4-1/2</u>	<u>J-55</u>	<u>10.5</u>	<u>X</u>		<u>3431</u>	<u>3431</u>	<u>275 sks.</u>	
TUBING									
LINERS									

Received  
Office of Oil & Gas

**MECHANICAL INTEGRITY TEST**

Test Method: Pressure test on 4½" casing to 2000 psig for 20 minutes.  
See attached chart.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The undersigned certifies that the test was performed on December 10, 19 96 and demonstrated the mechanical integrity of the well. The test was witnessed by \_\_\_\_\_ representing the Office of Oil and Gas.

\_\_\_\_\_  
Well Operator

\_\_\_\_\_  
Date

**THIS WELL IS AUTHORIZED FOR INJECTION.**

Signed *Michael W. Davis* UIC PROGRAM DIRECTOR

Date *2/20/97*

[NOTE: That the mechanical integrity of this well must be demonstrated again within ninety (90) days of five years from this date in order for injection to continue. Please notify the state inspector 24 hours in advance of the test].

Pennzoil Products Company  
Well Operator  
By: *[Signature]*  
Its Project Engineer

10301710P

WW-4A  
Revised 6-07

1) Date: September 29, 2014  
2) Operator's Well Number  
L. S. Hoyt 107

3) API Well No.: 47 - 103 - 1710

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

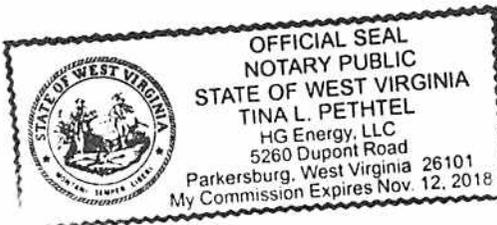
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Dallison Lumber, Inc.</u>	Name _____
Address <u>HC 79, Box 50</u>	Address _____
<u>Jacksonburg, WV 26377</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector	(c) Coal Lessee with Declaration
Address _____	Name <u>CONSOL Energy</u>
_____	Address <u>1000 CONSOL Energy Drive</u>
Telephone _____	<u>Cannonsburg, PA 15317</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:	<u>Agent</u>
Address	<u>5260 Dupont Road</u>
	<u>Parkersburg, WV 26101</u>
Telephone	<u>304-420-1119</u>

Subscribed and sworn before me this 29 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](mailto:depprivacyofficer@wv.gov).

CK 279Z \$100.00

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Office of Oil & Gas  
NOV 07 2014

10301710P

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Sent To

Consol. Energy

Street Apt. No. or PO Box No. 1000 Consol Energy Drive  
City, State, ZIP+4 Parkersburg PA 15317

PS Form 3800, August 2006

See Reverse for Instructions

7012 3460 0002 6850 6408

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Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.40</b>



Sent To

Dalliesh Lumber

Street Apt. No. or PO Box No. HC 79, Box 50  
City, State, ZIP+4 Jacksonburg WV 26377

PS Form 3800, August 2006

See Reverse for Instructions

7012 3460 0002 6850 6392

10301710P

WW-9  
Rev. 5/08

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 103 - 1710  
Operator's Well No. L. S. Hoyt 107

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 Fishing Creek Run Quadrangle Pine Grove 7.5'

Elevation 1440' County Wetzel District Grant

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

Will a synthetic liner be used in the pit? Yes 20ML.

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  
10-16-14

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

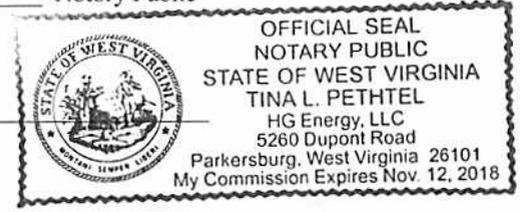
Received  
Office of Oil & Gas  
NOV 07 2014

Subscribed and sworn before me this 29 day of September, 2014

Tina L. Pettel

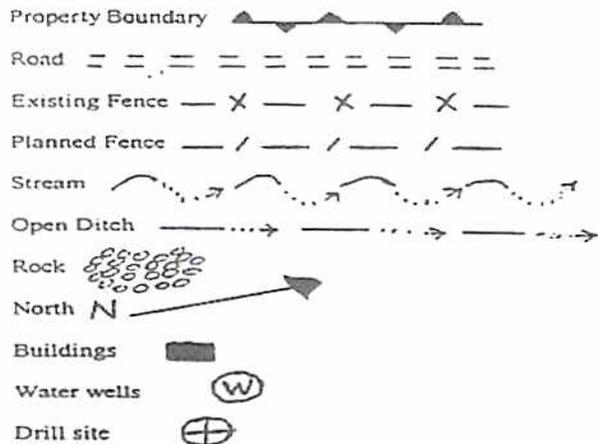
Notary Public

My commission expires NOV 12 2018

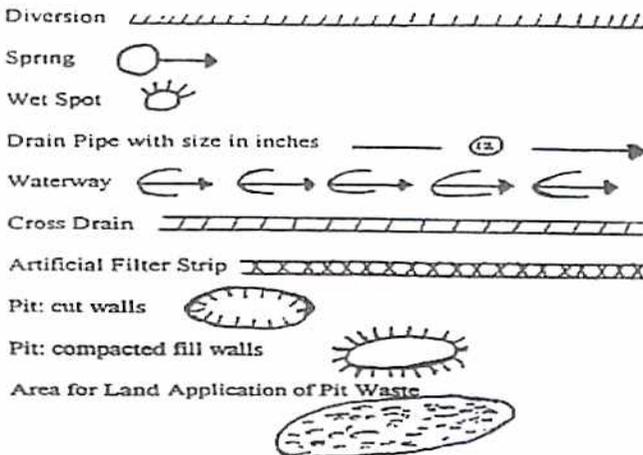


Form WW-9

Operator's Well No. L. S. Hoyt 107



**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed .75 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

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: \_\_\_\_\_

Title: Oil + Gas Inspector

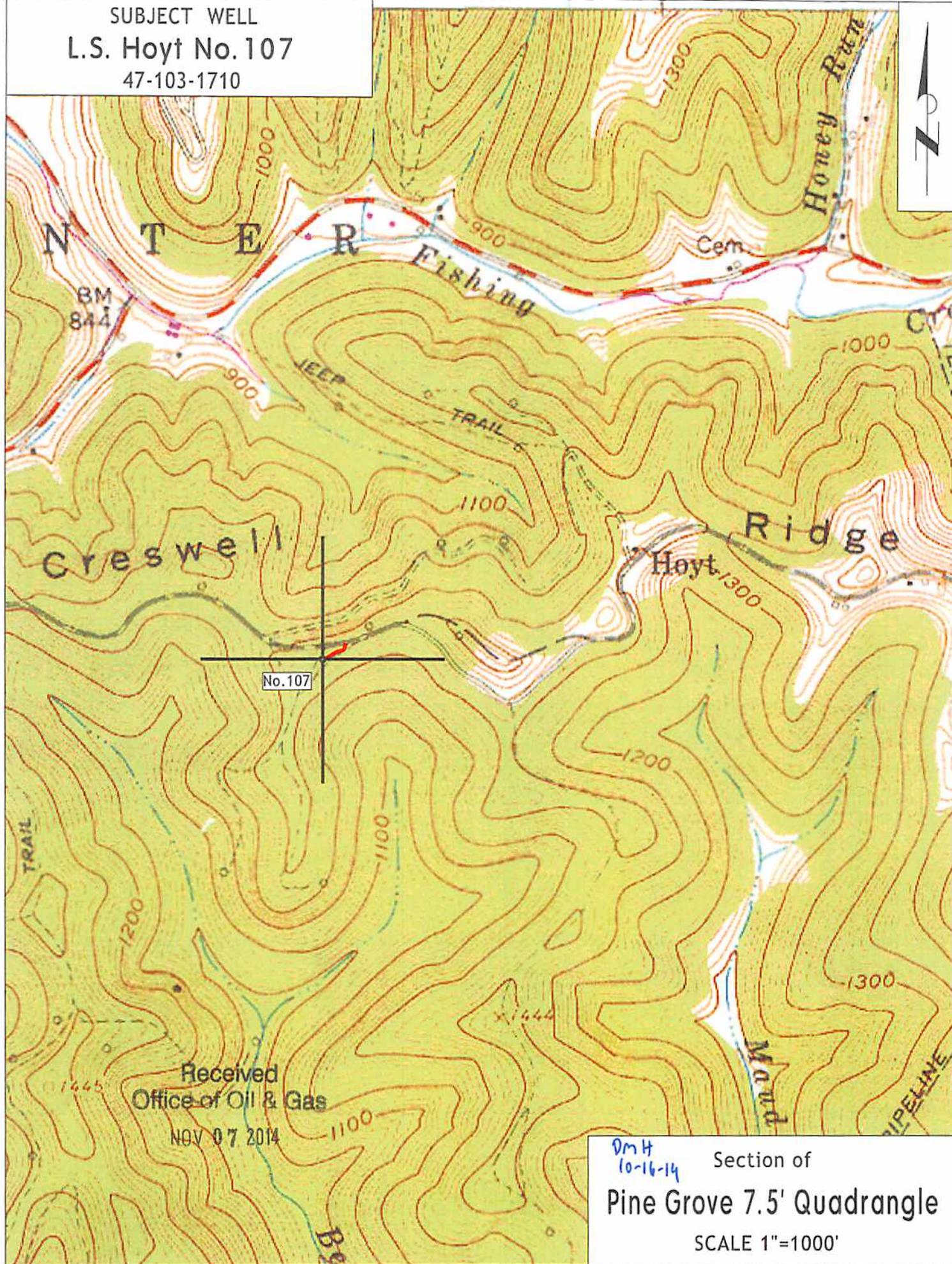
Date: 10-16-14

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Field Reviewed?  Yes  No

SUBJECT WELL  
L.S. Hoyt No. 107  
47-103-1710



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Office of Oil & Gas  
NOV 07 2014

DmH  
10-16-14 Section of  
Pine Grove 7.5' Quadrangle  
SCALE 1"=1000'

West Virginia Department of Environmental Protection  
Office of Oil & Gas

**WELL LOCATION FORM: GPS**

API: 47- 103 - 01710 WELL NO: No.107

FARM NAME: L.S. Hoyt

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Wetzel DISTRICT: Grant 1

QUADRANGLE: Pine Grove 7.5' 544

SURFACE OWNER: Dallison Lumber Co.

ROYALTY OWNER: HG Energy LLC et al.

UTM GPS NORTHING: 4,384,614

UTM GPS EASTING: 530,412 GPS ELEVATION: 439 m. 1440'

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  
Signature

Designated Agent  
Title

September 3, 2014  
Date

Received  
Office of Oil & Gas  
NOV 07 2014

10301710A



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

September 29, 2014

Jeff McLaughlin  
WVDEP  
Division of Oil & Gas  
601 57<sup>th</sup> Street  
Charleston, West Virginia 25304

RE: L. S. Hoyt No. 107 (47-103-1710)  
Grant 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

Received  
Office of Oil & Gas  
NOV 07 2014

cc:  
Dallison Lumber, Inc. - Certified  
CONSOL Energy - Certified  
Derek Haught - Inspector