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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 29, 2015

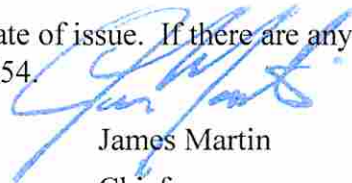
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9501660, 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: O. PITTS 8  
Farm Name: NICHOLS, ELDEN & IRENE  
**API Well Number: 47-9501660**  
**Permit Type: Plugging**  
Date Issued: 06/29/2015

## 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.

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### 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.

CK# 2950  
P100<sup>00</sup>

FW-4B  
Rev. 2/01

1) Date February 20, 2015  
2) Operator's Well No. Oliver Pitts 8  
3) API Well No. 47-~~000~~ -0100

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 1007' 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 - 2850' - 2750'
  - Free point, cut and pull 4 1/2" approx. 1875'
  - Plug No. 2 - 1925' - 1825'
  - Plug No. 3 - (057' - 835'
  - Plug No. 4 - 320' - 0' SURFACE

**CEMENT PLUGS MUST BE A  
MINIMUM OF 100' CLASS A  
CEMENT W/ NO MORE THAN  
3% CaCl<sub>2</sub> AND NO OTHER  
ADDITIVES.**

*JS.*  
6% gel between all plugs.  
**SET CONCRETE MARKER PER 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



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

Well Operator's Report of Well Work

Farm name: Nichols, Elden & Irene Operator Well No.: O. Pitts #8

LOCATION: Elevation: 1,007.00 Quadrangle: Center Point  
District: Mc Elroy County: Tyler  
Latitude: 6,550 Feet south of 39 Deg 27 Min 30 Sec.  
Longitude: 9,500 Feet west of 80 Deg 40 Min 0 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: Mike Underwood  
Permit Issued: 9/9/96  
Well work Commenced: 12/17/96  
Well work Completed: 1/2/97  
Verbal plugging  
Permission granted on:  
Rotary  Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 2992'  
Fresh water depths (ft) NA  
Salt water depths (ft) NA  
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.
8-5/8"	270'	270'	150 Sacks
4 1/2"	2932.40'	2932.40'	275 Sacks

OPEN FLOW DATA \*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 2,292'  
 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

Office of Oil & Gas  
APR 29 2015

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

By: \_\_\_\_\_

Date: 3/17/98

07/03/2015

9501660P

**Treatment :** Perforated Gordon sand with 16 holes from 2882'-2886' K.B. Fractured with 300 gals 15% HCL and 182 bbls gelled water and 9,500 lbs. 20/40 sand

**Well Log :** All depth are relative to K.B.

0	276 Sand and Shale
276	535 Shale
535	570 sand
570	654 Shale
654	702 sand
702	895 Shale
895	912 sand
912	1380 Shale
1380	1388 sand
1388	1608 Shale
1608	1624 sand
1624	1654 Shale
1654	1676 sand
1676	1724 Shale
1724	1742 sand
1742	2044 Shale
1724	2140 Big Lime
2140	2292 Big Injun
2292	2872 Shale
2292	2886 Gordon
2886	2995 Shale

Received  
Office of

APR 29 2015

07/03/2015

95016609

WW-4A  
Revised 6-07

CK # 2950  
100.00

1) Date: February 20, 2015  
2) Operator's Well Number  
Oliver Pitts 8

3) API Well No.: 47 - 095 - 01660

**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>Elden Nichols</u>	Name <u>NA</u>
Address <u>HC 62, P. O. Box 72</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	<u>HG Energy, LLC</u>
By:	<u>Diane White</u> <i>Diane White</i>
As:	<u>Agent</u>
Address	<u>5260 Dupont Road</u>
	<u>Parkersburg, WV 26101</u>
Telephone	<u>304-420-1119</u>

**Received**  
**Office of Oil & Gas**  
**APR 29 2015**

Subscribed and sworn before me this 20th 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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

07/03/2015

9501660P

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U.S. Postal Service™  
CERTIFIED MAIL™ RECEIPT  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

OFFICIAL USE

Postage	\$ 1.40
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.40</b>

Postmark  
Here  
FEB 23 2015

OPB

Sent To	Elden Nichols
Street, Apt. No.; or PO Box No.	HC 62, Box 72
City, State, ZIP+4	Alvy WV 26322

PS Form 3800, August 2006 See Reverse for Instructions

Receiver  
Office of ...  
APR 29 2015

07/03/2015



9501660 P

WW-9  
Rev. 5/08

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 085 - 01680  
Operator's Well No. \_\_\_\_\_

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 1007' 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 NO

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  Swabbing  
 Workover  Plugging  
 Other (Explain \_\_\_\_\_)

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 20th day of February, 2015

S. Dianne Dulaney

My commission expires Oct 4, 2016

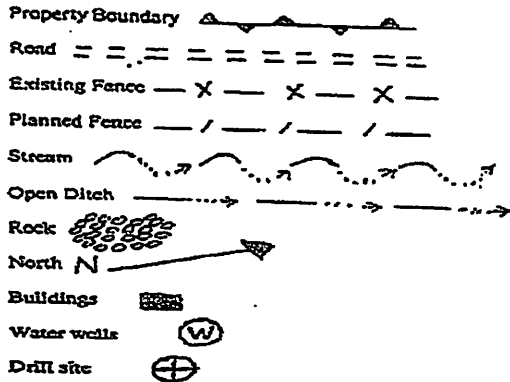


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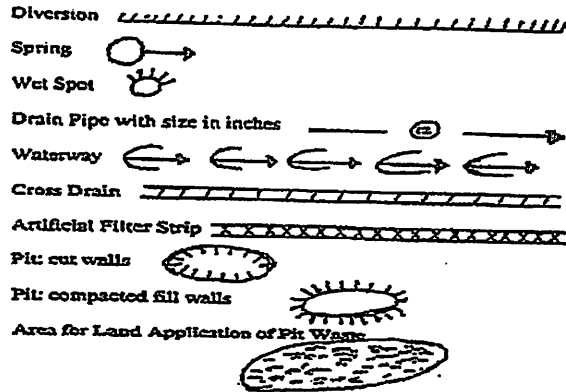


Form WW-9

Operator's Well No. Oliver Pitts 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	Seed Type	Area II 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 Duff  
 Comments: Presseed & Mulch any disturbed areas

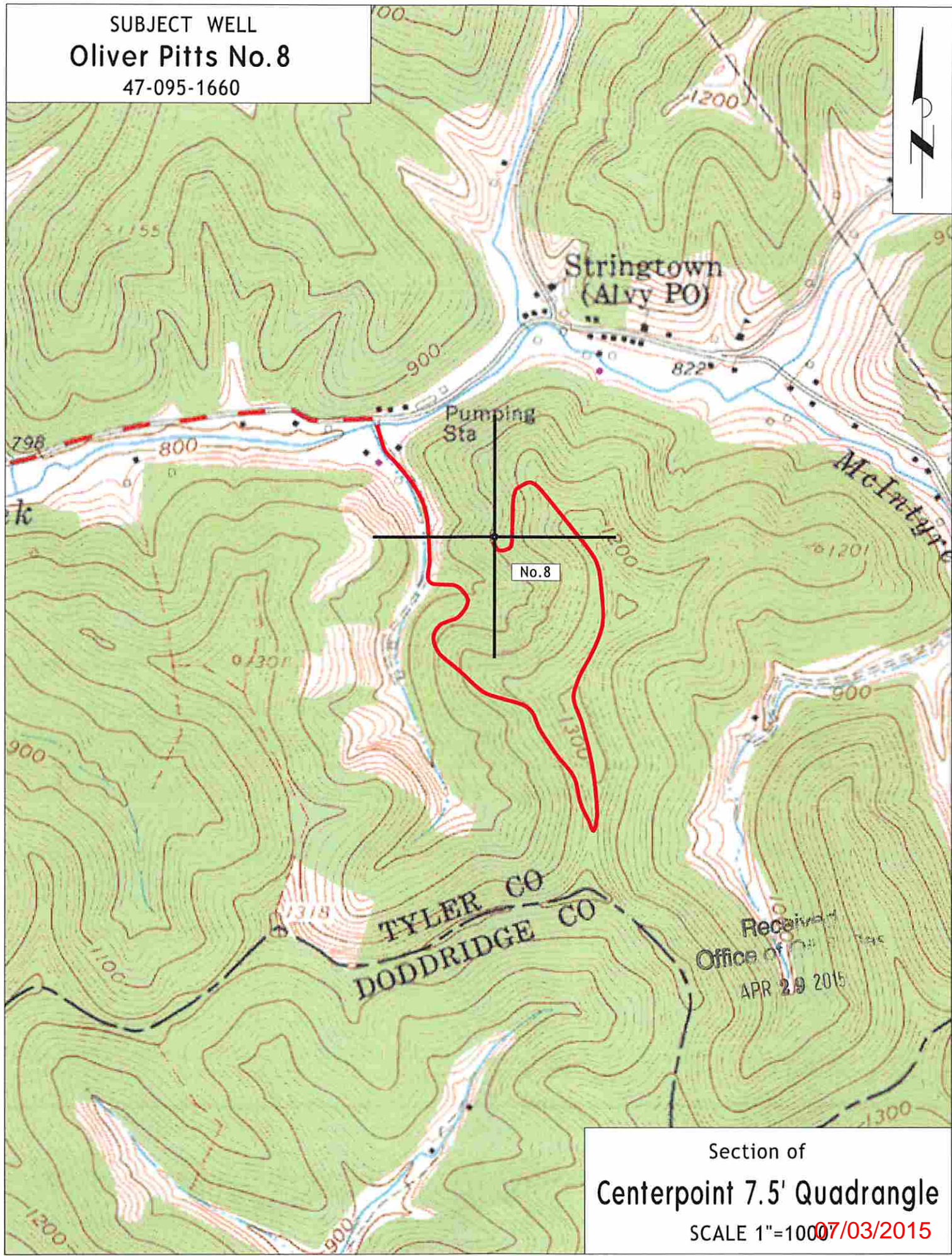
Received  
 Office of Oil & Gas  
 APR 29 2015

Title: Oil & Gas Inspector Date: 4/20/2015

Field Reviewed?  Yes  No

9501660P

SUBJECT WELL  
**Oliver Pitts No.8**  
47-095-1660



Received  
Office of  
APR 29 2015

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



9501660P

WW-7  
5-02

West Virginia Department of Environmental Protection  
Office of Oil & Gas

**WELL LOCATION FORM: GPS**

API: 47- 095 - 1660 WELL NO: No.8

FARM NAME: Oliver Pitts

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Tyler DISTRICT: McElroy

QUADRANGLE: Centerpoint 7.5'

SURFACE OWNER: Elden Nichols

ROYALTY OWNER: American Energy Partners LLC, et al.

UTM GPS NORTHING: 4,365,700

UTM GPS EASTING: 525,819 GPS ELEVATION: 307 m. 1007. FT

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  
Signature

Diane White

Designated Agent  
Title

February 19, 2015  
Date

07/03/2015

I  
now

Operator: HG ENERGY, LLC  
API: 9501660  
WELL No: O. PITTS 8  
Reviewed by: g.w.m Date: 6/23/15  
15 Day End of Comment: 05/04/15

### CHECKLIST FOR FILING A PERMIT

#### Plugging

ck# 2950  
\$100<sup>00</sup>

- 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