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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

October 05, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-10301748, 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. E. DULANEY 202  
Farm Name: ABLE, PAUL, ETAL  
**API Well Number: 47-10301748**  
**Permit Type: Plugging**  
Date Issued: 10/05/2015

**Promoting a healthy environment.**

**10/09/2015**

## 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.



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fax: (304) 926-0452

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

October 5, 2015

Mr. Thomas L. Gifford  
3854 State Street  
Akron, Ohio 44319

Re: Permit Application for API: 47-103-01748 Plugging

Dear Mr. Gifford:

The Office of Oil and Gas (OOG) has completed its review of the above referenced permit application submitted by HG Energy, LLC. The Wetzel County oil and gas inspector examined the site to ensure compliance with all applicable requirements of Article 6, Chapter 22 of the West Virginia Code and Legislative Rule Title 35, Series 4. Also, your comments were sent to the applicant to ensure it was aware of your concerns. The applicant's response is enclosed for your records.

After considering your comments, the applicant's response, and the inspector's findings, the OOG has determined that the application meets the requirements set forth in the above statute and legislative rule. Consequently, the OOG is issuing the permit today. For your information and convenience, I am including with this letter a copy of the permit as issued.

As you may know, surface owners are entitled to compensation for damages to their property resulting from oil and gas drilling activity. Absent an agreement by the parties, such damage compensation may be addressed pursuant to Article 7, Chapter 22 of the West Virginia Code. Please contact Gene Smith at (304) 926-0499, extension 1652 if you have questions.

Sincerely,

Jeffrey W. McLaughlin  
WV DEP Office of Oil & Gas  
Technical Analyst  
B. S. Of Petroleum Engineering

Enclosure

cc: Brooks K. Barkwell, Esq.  
Derek Haught

Promoting a healthy environment.

10/09/2015





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west virginia department of environmental protection

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WV DEP Office of Oil & Gas  
Technical Analyst  
B. S. Of Petroleum Engineering

Enclosure

cc: Brooks K. Barkwell, Esq.  
Derek Haught

Promoting a healthy environment.

10/09/2015



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

August 24, 2015

James Martin  
 Chief - Office of Oil and Gas  
 WV DEP  
 601 57<sup>th</sup> Street  
 Charleston, West Virginia 25304

RE: L.E. Dulaney No. 202 (47-103-1748) Plugging Application filed 8/25/2015  
 Grant District, Wetzel County, WV

Dear Mr. Martin:

By letter submitted to your office dated August 12, 2015, Attorney Brooks Barkwill filed (on behalf of his client, Thomas L. Gifford), two objections to the plugging permit application filed by HG Energy, LLC for the above captioned well. The following responses are listed below and referenced to the numbered comments listed in the objection letter:

1. Comment No.1 – HG Energy, LLC, agrees to revegetate the reclamation area with Ladino Clover at 45 pounds per acre.
2. Comment No. 2 – Where possible, HG Energy, LLC, recycles all recovered casing back into their drilling program. If pipe can't be used in operations, the pipe is sold to a recycling facility to ensure proper disposal of all old pipe and to offset costs of plugging said well.

In addition to the above-referenced Comments, the surface owner also mentioned in paragraph two the soil and erosion plan was inadequate. On August 18, 2015, Derek Haught, WV DEP Inspector for Wetzel county, field reviewed and approved the reclamation plan and casing program for this application. A copy of Mr. Haught's comments and approvals have been attached indicating he believes the proposed well work abides by the WV DEP Oil & Gas Rules and Regulations.

Based on the aforementioned comments; we believe the landowners concerns have been satisfactorily addressed and therefore request the issuance of the plugging permit for the above referenced well.

Thank you for your prompt attention to this matter. If you have any questions on this issue you can contact me at (304) 420-1119.

Very truly yours,

*Diane White*

Diane White

cc: Melanie S. Hankins – WV DEP  
 Brooks K. Barkwill  
 Derek Haught – WV DEP Inspector

RECEIVED  
 Office of Oil and Gas

AUG 27 2015

WV Department of  
 Environmental Protection

10/09/2015



# BROOKS K. BARKWILL LC LAW OFFICES



705 Maple Avenue  
New Martinsville, WV 26155  
Tel (304) 455-0028  
Fax (304) 455-0029

Brooks K. Barkwill, Esq.  
State Bar ID No. 235

### FACSIMILE TRANSMISSION

**IMPORTANT:** The information contained in this facsimile transmission is only for the use of the individual(s) or entity named below, and may contain information that is privileged, confidential or exempt or protected from disclosure under applicable law. If the reader of this transmission is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us by telephone, and return the original message to us at the above address via the United States Postal Service. Thank you.

FAX NO.: 304-926-0452

DATE: 8-13-15

TO: James A Martin Chief Office O'G

FROM: Brooks K. Barkwill, Esquire

IN RE: Thomas L Gifford

PAGES (including cover sheet): 5

HARDCOPY  WILL  WILL NOT FOLLOW BY MAIL

COMMENTS:

# BROOKS K. BARKWILL LC

## LAW OFFICES



705 Maple Avenue  
New Martinsville, WV 26155  
Tel (304) 455-0028  
Fax (304) 455-0029

Brooks K. Barkwill, Esq.  
State Bar ID No. 235

August 13, 2015

VIA FAX (304-926-0452), and Hardcopy  
James A. Martin, Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

**In Re: Comments by Surface Owner, Thomas L. Gifford, to the 8/10/15 Application of Well Operator, HG Energy, LLC, to Plug and Abandon Operator's Well Number L E Dulaney 202 (API Well No. 47-103-1748)**

---

**Note the following - -**  
**Surface Owner: Thomas L. Gifford**  
**Address: 3854 State Street**  
**Akron, OH 44319**  
**Telephone: 330-696-4314**  
**Well Operator: HG Energy, LLC**  
**Well No.: LE Dulaney 202 (API Well No. 47-103-1748)**  
**Well Site Location - -**  
**Elevation: 1323**  
**Water Shed: North Fork of Fishing Creek**  
**District: Grant**  
**Quadrangel: Pine Grove 7.5'**  
**County: Wetzel**

---

Dear Chief Martin:

On behalf of the surface owner, Thomas L. Gifford, this is a follow-up to my letter to you of date August 12, 2015 (copy attached).

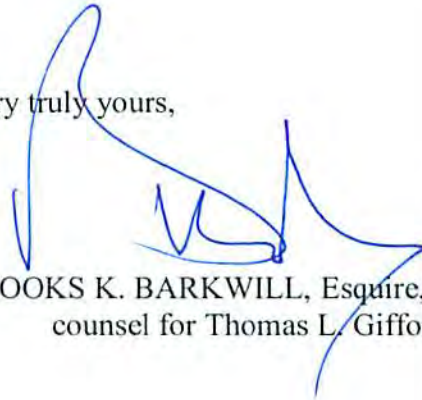
Inadvertently omitted from my said letter of August 12, 2015, is the following request:

- This is to request a copy of the permit as it is issued, or a copy of the order denying the permit.

10/09/2015

Thank you.

Very truly yours,



BROOKS K. BARKWILL, Esquire, legal  
counsel for Thomas L. Gifford

c: HG Energy, LLC  
Attn.: Diane C. White, Agent  
5620 Dupont Road  
Parkersburg, WV 26101

Thomas L. Gifford  
3854 State Street  
Akron, OH 44319

10/09/2015



# BROOKS K. BARKWILL LC

## LAW OFFICES



705 Maple Avenue  
New Martinsville, WV 26155  
Tel (304) 455-0028  
Fax (304) 455-0029

Brooks K. Barkwill, Esq.  
State Bar ID No. 235

August 12, 2015

Via UPS Next Day Air

James A. Martin, Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

**In Re: Comments by Surface Owner, Thomas L. Gifford, to the 8/10/15 Application of Well Operator, HG Energy, LLC, to Plug and Abandon Operator's Well Number L E Dulaney 202 (API Well No. 47-103-1748)**

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**Well Site Location - -**  
**Elevation: 1323; Water Shed: North Fork of Fishing Creek**  
**District: Grant**  
**Quadrangel: Pine Grove 7.5'**

---

Dear Chief Martin:

The undersigned represents, as legal counsel, the surface owner, Thomas L. Gifford, respecting captioned matter.

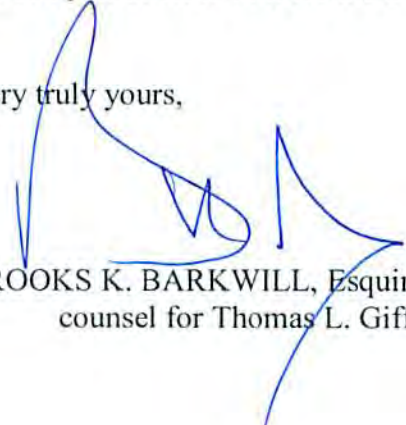
This is to request that the within Comments be recognized by your Office as being timely filed within five (5) days after the August 10, 2015 filing date.

Said Thomas L. Gifford ("Gifford"), by counsel, Comments as follows:

10/09/2015

- 1) Gifford requests that the Chief condition a Well Work Permit as follows (based upon Gifford's assertion that the soil erosion control plan is not adequate): That Form WW-9 be amended to provide that each of Areas I and II, comprising a total of .06 acre, be revegetated, at the rate of 45 lbs/acre, with solely Landino Clover (and not with a mix of Tall Fescue and Landino Clover).
- 2) Gifford requests that the Chief condition a Well Work Permit as follows: That Form WW-4B, as to the Work Order, direct that all possible casing be recovered and stacked upon the surface of the property, for the benefit and use of Thomas L. Gifford, as compensation to him for the disturbance of the surface of his property.

Very truly yours,



BROOKS K. BARKWILL, Esquire, legal  
counsel for Thomas L. Gifford.

c: HG Energy, LLC  
Attn.: Diane C. White  
5620 Dupont Road  
Parkersburg, WV 26101

Thomas L. Gifford  
3854 State Street  
Akron, OH 44319

10/09/2015

# BROOKS K. BARKWILL LC

## LAW OFFICES



705 Maple Avenue  
New Martinsville, WV 26155  
Tel (304) 455-0028  
Fax (304) 455-0029

Brooks K. Barkwill, Esq.  
State Bar ID No. 235

August 12, 2015

Via UPS Next Day Air

James A. Martin, Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

**In Re: Comments by Surface Owner, Thomas L. Gifford, to the 8/10/15 Application of Well Operator, HG Energy, LLC, to Plug and Abandon Operator's Well Number L E Dulaney 202 (API Well No. 47-103-1748)**

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counsel for Thomas L. Gifford.

c: HG Energy, LLC  
Attn.: Diane C. White  
5620 Dupont Road  
Parkersburg, WV 26101

Thomas L. Gifford  
3854 State Street  
Akron, OH 44319

10/09/2015



WW-4B - Conti  
Rev. 2/01

1) Date: August 10, 2015  
2) Operator's Well Number  
L. E. Dulaney 202  
3) API Well No: 47 - 103 - 1748  
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 x  
5) LOCATION: Elevation: 1323' Watershed: North Fork of Fishing Creek  
District: Grant County: Wetzel Quadrangle Pine Grove 7.5'  
6) WELL OPERATOR: HG Energy, LLC 4.94E+08 7) DESIGNATED AGENT Diane White  
Address 5260 Dupont Road Address 5260 Dupont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101  
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 \_\_\_\_\_  
Smithfield, WV 26178 \_\_\_\_\_

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

TD- 3,303'

Manners of plugging:

Plug #1 - 3250' - 3100'  
Located through perforations (3156' - 3190')  
Free point, part and pull 4 1/2" casing at approx 2000'  
Plug # 2 - 2050' - 1950'  
Located at 4 1/2" casing stub  
Plug #3 - 1375' - 1275'  
Located above salt sand at elevation  
Plug #4 - 1150' - 1050'  
Located through coal seams and at 8 5/8" casing shoe  
Plug # 5 - 300' - 0'  
Located through freshwater to surface

Recover all possible casing. If casing can not be recovered, perforate for plug placement.

Monument:

6" minimum diameter metal pipe  
30" above surface  
10' in well below surface  
Sealed with cement  
API identification (1/2") height numbering

6% Gel between all plugs

RECEIVED  
Office of Oil and Gas

AUG 27 2015

WV Department of  
Environmental Protection

DMH  
8-18-15



Well: Dulaney, LE #202

Casing Information		
Size	Depth	Weight
8 5/8"	1083	#/ft.
4 1/2"	3190	#/ft.

Elevation: 1323'

Hole Size 11" →

Coal 1088'

Bottom Hole Cement Level Calculations

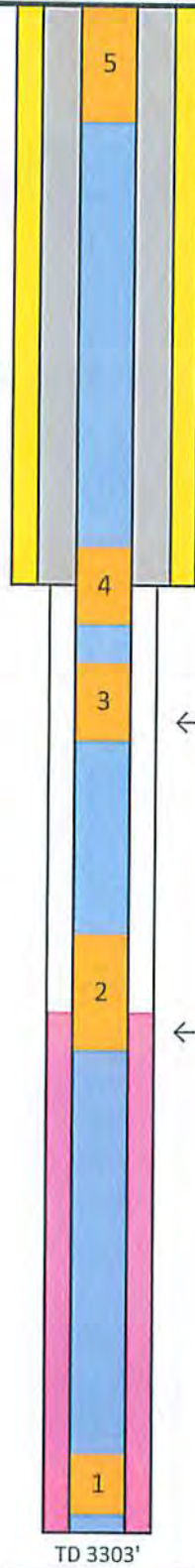
# Sacks Used                      Cement Depth  
 275                                      2166.931

Hole Size            Casing Size            Depth  
 7.875                      4.5                      3190

diameter delta    Conv. Factor    bbls / ft.  
 41.765625            1029.4            0.040573

cubic ft. per vertical ft. depth  
 0.227795902

Sacks per vertical ft. depth  
 0.268799164



← 515 sks cement to surface

Freepoint Cut and Pull Casing	
Size	Approx. Depth
4 1/2"	2140'

Cement Plugs		
NO.	Bottom	Top
1	3250	3100
2	2050	1950
3	1375	1275
4	1150	1050
5	300	0

← 7 7/8" Hole Size

← 275 Sks Cement T.O.C. 2165'

Highest Perforation 3156'

RECEIVED  
 Office of Oil and Gas  
 AUG 27 2015

DMH  
 8-18-15 WV Department of Environmental Protection

WR-35

6-Aug-97  
API# 47 -103- 1748

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

Well Operator's Report of Well Work

Farm name: Able, Paul etal Operator Well No.: L.E. Dulaney #202

LOCATION: Elevation: 1,323.00 Quadrangle: Pine Grove

District: Grant County: Wetzel  
Latitude: 12,550 Feet south of 39 Deg 37 Min 30 Sec.  
Longitude: 11,650 Feet west of 80 Deg 37 Min 0 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: Randal Mick

Permit Issued: 8/11/97

Well work Commenced: 10/20/97

Well work Completed: 11/21/97

Verbal plugging permission granted on:

Rotary  Cable  Rig

Total Depth (feet) 3303'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 1084'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1183'	1183'	515 Sacks
4 1/2"	3190.00'	3190.00'	135 Sacks

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3,064  
 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 and Gas  
AUG 27 2015

WV Department of Environmental Protection

For: PENNZOIL PRODUCTS COMPANY

By: Philip S. Ondrusek

Date: 3/16/98

10/09/2015

**Treatment:**

Perforated Gordon sand with 16 holes from 3190'-3194' K.B. Fractured with 300 gals 15% HCL and 201bbls gelled water and 11,000 lbs. 20/40 sand .

**Well Log:**

All depths are relative to K.B.

0	1084 Sand and Shale
1084	1088 coal
1088	1598 Shale
1596	1814 sand
1814	1900 Shale
1900	2080 sand
2080	2264 Shale
2264	2422 Big Lime
2422	2464 Shale
2464	2584 Big Injun
2584	3052 Shale
3052	3060 Gordon Stray
3060	3064 Shale
3064	3075 Gordon
3075	3303 Shale

RECEIVED  
Office of Oil and Gas

AUG 27 2015

WV Department of  
Environmental Protection

10/09/2015



WW-4A  
Revised 6-07

1) Date: August 10, 2015  
2) Operator's Well Number  
LE Dulaney 202  
3) API Well No.: 47 - 103 - 1748

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

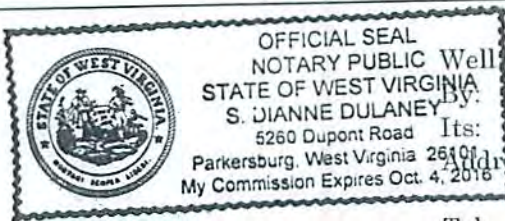
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Thomas L. Gifford</u>	Name <u>NA</u>
Address <u>3854 State Street</u>	Address _____
<u>Akron, OH 44319</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Murray Energy Corporation</u>
	Address <u>46226 National Road</u>
	<u>St. Clairsville, OH 43950</u>
(c) Name _____	Name _____
Address _____	Address _____
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 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  
 Agent Diane White  
Diane White  
 5260 Dupont Road  
 Parkersburg, WV 26101  
 304-420-1119

RECEIVED  
Office of Oil and Gas

AUG 27 2015

Subscribed and sworn before me this 10th day of August, 2015

[Signature]  
My Commission Expires Oct. 4, 2016

Notary Public  
Department of Environmental Protection

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).

10/09/2015



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 North Fork of Fishing Creek Quadrangle Pine Grove 7.5'

Elevation 718' 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 pits must be lined with a minimum of 20 mil thickness synthetic liner.

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  
8-18-15

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

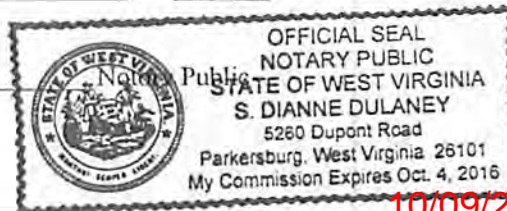
RECEIVED  
Office of Oil and Gas

AUG 27 2015

Subscribed and sworn before me this 10th day of August, 2015

WV Department of Environmental Protection

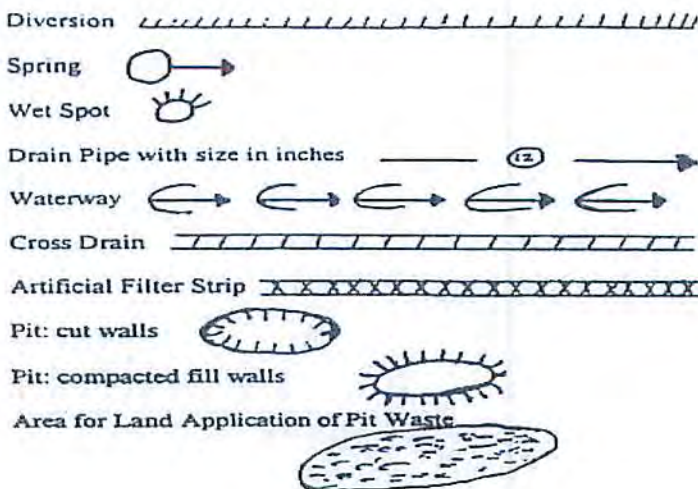
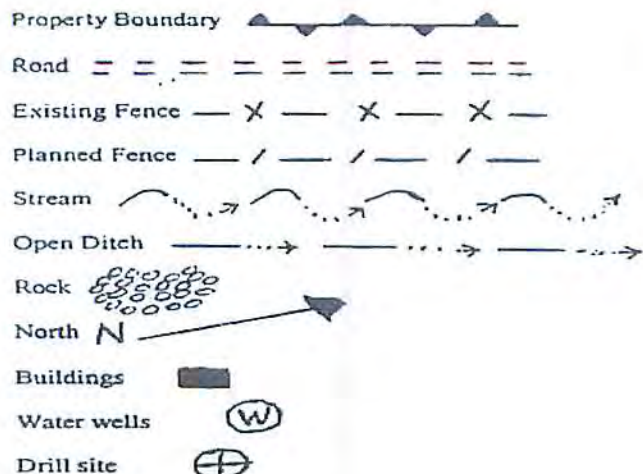
[Signature]



My commission expires Oct. 4, 2016

10/09/2015

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed .06 acres Prevegetation pH \_\_\_\_\_

Lime 3 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
<del>Tall Fescue</del>		<del>40</del>	<del>Tall Fescue</del>		<del>40</del>
Ladino Clover		45	Ladino Clover		45

*Handwritten notes: "gwm 10/31/2015" next to the 45 lbs/acre values.*

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

Photocopied section of involved 7.5' topographic sheet.  
**\*\* Sediment Control Should Be in Place at all Times \*\***

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Plan Approved by: [Signature]

AUG 27 2015

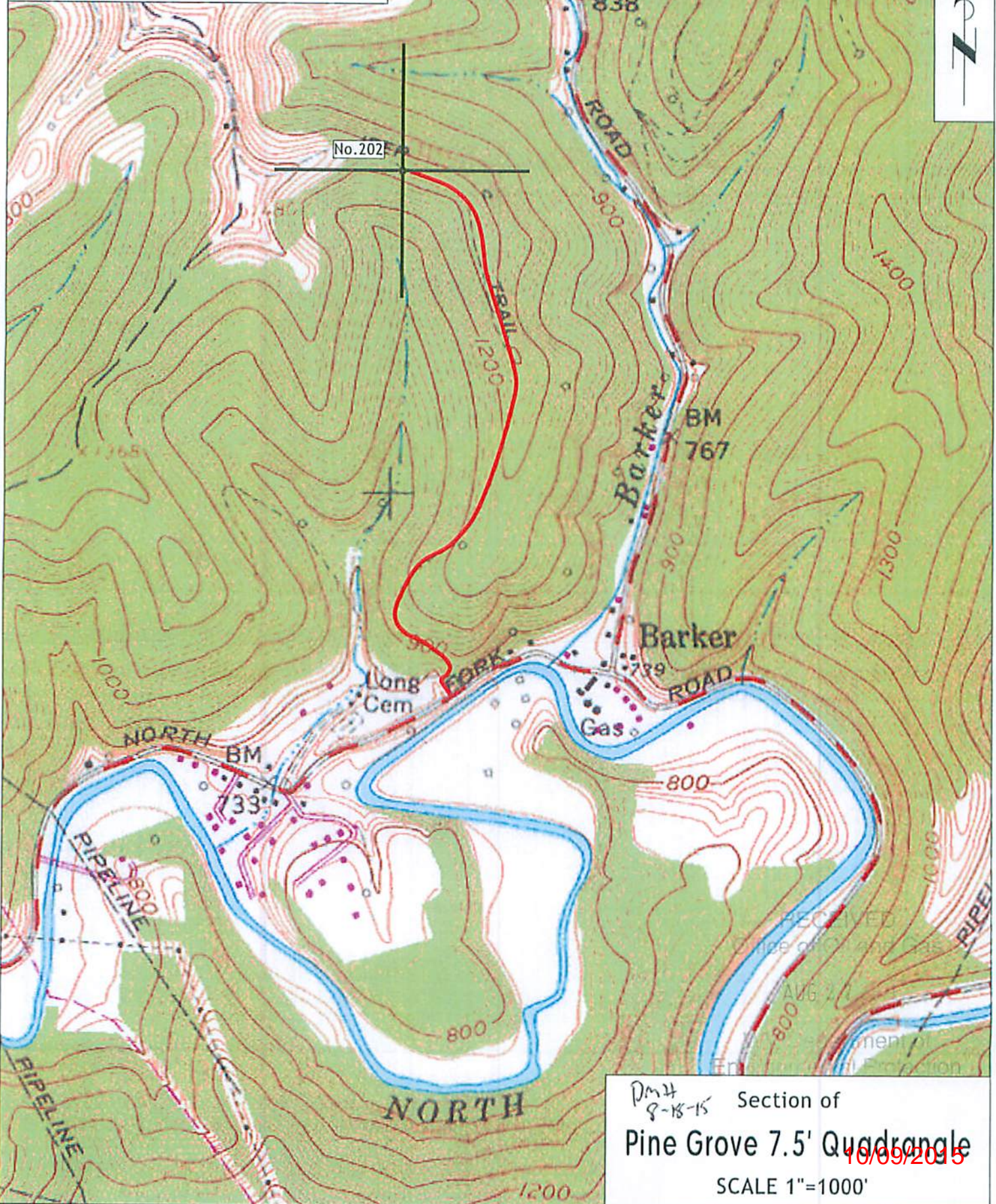
Comments: \_\_\_\_\_ WV Department of Environmental Protection

Title: Oil & Gas Inspector Date: 8-18-15

Field Reviewed? (  ) Yes (  ) No



SUBJECT WELL  
L.E. Dulaney No.202  
47-103-1748



Section of  
**Pine Grove 7.5' Quadrangle**  
SCALE 1"=1000'

Dm4  
8-18-15

10/09/2015



WW-7  
8-30-06

West Virginia Department of Environmental Protection  
Office of Oil & Gas

**WELL LOCATION FORM: GPS**

API: 47- 103 - 1748 WELL NO: No.202

FARM NAME: L.E. Dulaney

RESPONSIBLE PARTY NAME: H.G. Energy, LLC

COUNTY: Wetzel DISTRICT: Grant

QUADRANGLE: Pine Grove 7.5'

SURFACE OWNER: Thomas L. Gifford

ROYALTY OWNER: American Energy Partners et al.

UTM GPS NORTHING: 4,382,362 (NAD 83)

UTM GPS EASTING: 528,659 (NAD 83) GPS ELEVATION: 398 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"/>
	<input type="checkbox"/>	Real-Time Differential	<input type="checkbox"/>
Mapping Grade GPS	<input checked="" type="checkbox"/>	Post Processed Differential	<input checked="" type="checkbox"/>
	<input 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.

RECEIVED  
Office of Oil and Gas

AUG 27 2015

Diane White Diane C White  
Signature  
March 23, 2015  
Date

Designated Agent  
Title  
WV Department of  
Environmental Protection

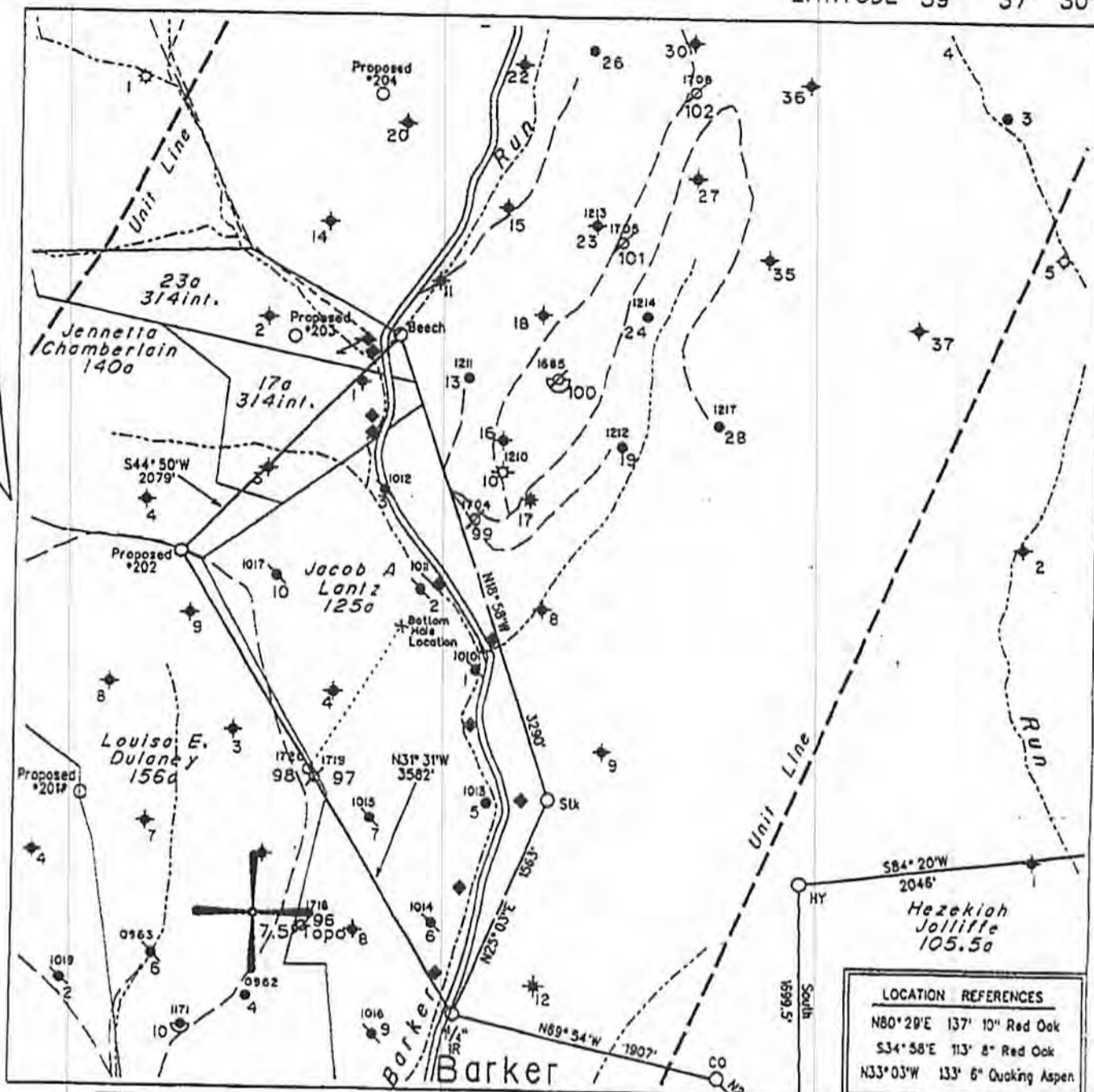
10/09/2015

11,650'

LATITUDE 39° 37' 30"

LONGITUDE 80° 37' 30"

12,550'



Note: No Known Water Supply Sources Are Located Within 1000' Of Proposed Well

LOCATION REFERENCES	
N80° 20' E	137' 10" Red Oak
S34° 58' E	113' 8" Red Oak
N33° 03' W	133' 6" Quaking Aspen

(H) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

◆ Denotes a Water Supply Source

FILE NO. \_\_\_\_\_  
 MAP NO. N68 N 10 S E W 3  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION USGS BM - 838'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF MINES.

(SIGNED) Timothy P. Roush  
 TIMOTHY P. ROUSH PS 793



STATE OF WEST VIRGINIA  
 DIVISION OF ENERGY  
 OIL AND GAS SECTION



DATE July 21, 19 97  
 FARM L.E. Dulaney NO. 202  
 API WELL NO. 47-103-1748 F

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1323' WATERSHED North Fork of Fishing Creek  
 DISTRICT Grant COUNTY Wetzel  
 QUADRANGLE Pine Grove

SURFACE OWNER Paul Able et al ACREAGE 128.5 Ac.  
 OIL & GAS ROYALTY OWNER Robert B. Myers LEASE ACREAGE 125 Ac.  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION Gordon ESTIMATED DEPTH 3315'  
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT Philip S. Ondrusek  
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519  
Vienna, W.Va. 26105 Vienna, W.Va. 26105

10/09/2015

WET 1748 F