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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 01, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-10301233, issued to HADDAD & BROOKS INC, 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: 1  
Farm Name: BUMGARDNER, ANDREW  
**API Well Number: 47-10301233**  
**Permit Type: Plugging**  
Date Issued: 10/01/2015

## 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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

CK # 9149  
\$100

WW-4B  
Rev. 2/01

- 1) Date July 20, 2015
- 2) Operator's  
Well No. Bumgardner # 1
- 3) API Well No. 47-103 - 01233

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 X / Liquid injection      / Waste disposal      /  
(If "Gas, Production      or Underground storage     ) Deep      / Shallow
- 5) Location: Elevation 1420 Watershed Little Fishing Creek  
District Proctor County Wetzel Quadrangle Wileyville
- 6) Well Operator Haddad & Brooks, Inc 7) Designated Agent Lloyd Frank Henderson  
Address 30 East Beau Street, Suite 700 Address MC 68 Box 23A  
Washington, Pa 15301 Littleton, WV 26581
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Derek Haught Name Lucas Well Service, Inc  
Address P O Box 85 Address P O Box 4652  
Smithville WV 26178 Parkersburg, WV 26104

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

*S&T GEL.*  
Cement 3450 - 3300  
Cut 4 1/2" casing at 2500 (or freepoint) and pull  
Cement 2500 - 2400  
Cement 1425 - 1325  
Cement 1285 - 1150  
Cement 100 - surface  
6% gel to be placed between each cement plug  
Erect monument w/ API number

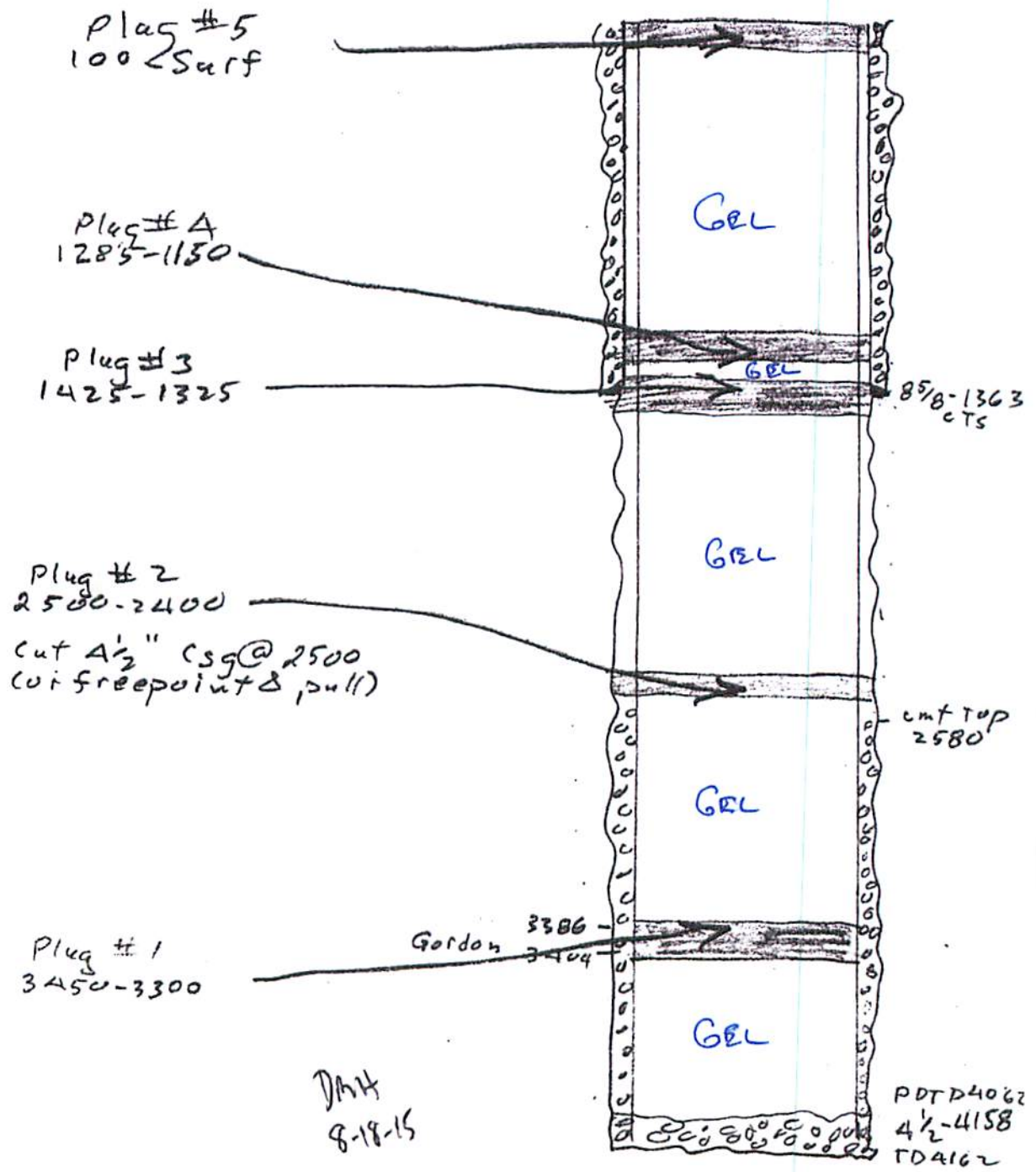
Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector  Date 8-18-15



Bumgardner 1  
47-103-01233

Fl. 1A20



DMH  
8-18-15

*File*  
*HB-310*  
*Bumgardner*



IV-35  
 (Rev 8-81)

State of West Virginia  
 Department of Mines  
 Oil and Gas Division

Date February 25, 1982  
 Operator's Well No. 1  
 Farm Andrew Bumgardner  
 API No. 47 - 103 - 1233

WELL OPERATOR'S REPORT  
 OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil      / Gas X / Liquid Injection      / Waste Disposal      /  
 (If "Gas," Production X / Underground Storage      / Deep      / Shallow X /)

LOCATION: Elevation: 1420 Watershed Little Fishing Creek  
 District: Proctor County Wetzel Quadrangle Wileyville

COMPANY Haddad and Brooks, Inc.  
 ADDRESS 905 Washington Rd., Washington, PA 15301  
 DESIGNATED AGENT Henry M. Parsons  
 ADDRESS 121 Glenville Dr., New Martinsville, WV 26155  
 SURFACE OWNER Andrew Bumgardner  
 ADDRESS 763 Montana Ave., Akron, OH 44314  
 MINERAL RIGHTS OWNER Same  
 ADDRESS       
 OIL AND GAS INSPECTOR FOR THIS WORK       
Phil Tracy ADDRESS Middlebourne, WV 26149  
 PERMIT ISSUED May, 1981  
 DRILLING COMMENCED 8-13-81  
 DRILLING COMPLETED 8-26-81  
 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON     

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1363'	A11	150 sks Nite 150 sks Neht
7			
5 1/2			
4 1/2	4158'	A11	130 sks 50 70 sks Th 50 Poz xo.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Warren Depth 4033' feet  
 Depth of completed well 4162' feet Rotary X / Cable Tools       
 Water strata depth: Fresh unknown feet; Salt unknown feet Drilled with fluid  
 Coal seam depths: 1235' (Pittsburgh Coal) Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 3386-3404' feet  
 Gas: Initial open flow N/A Mcf/d Oil: Initial open flow 0 bbl/d  
 Final open flow 40 Mcf/d Final open flow 0 bbl/d  
 Time of open flow between initial and final tests 7 hours  
 Static rock pressure 525 psig (surface measurement) after 96 hours shut in  
 (If applicable due to multiple completion--)  
 Second producing formation      Pay zone depth      feet  
 Gas: Initial open flow      Mcf/d Oil: Initial open flow      bbl/d  
 Final open flow      Mcf/d Oil: Final open flow      bbl/d  
 Time of open flow between initial and final tests      hours  
 Static rock pressure      psig (surface measurement) after      hours shut in

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 Office of Oil and Gas  
 AUG 20 2015  
 WV Department of Environmental Protection

10/02/2015

10301233  
(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Notch Gordon at 3390'. Fractured with 480 bbl. gelled diesel, 14,000# 20/40 sand. Injected 12 BPM @ 3400 psi (Avg.)

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Undifferentiated SS & SH			0'	2476'	Pittsburgh Coal @ 1235'
Greenbrier	Tan	H	2476'	2566'	
Keener	Lt Gy	H-S	2566'	2618'	
SH	Gy	S	2618'	2627'	
Big Injun	Wt-Gy	H-S	2627'	2753'	*SSG
SH & Slst	Gy	S	2753'	2924'	
Weir	Wt-lt gy	H	2924'	2978'	*SG
SH & Slst	Gy	S	2978'	3122'	
Berea	Lt Br-lt gy	H	3122'	3161'	*SG
SH & Slst	Gy	S	3161'	3386'	
Gordon	Wt	S	3386'	3404'	*SG
SH	Lt Gy	S	3404'	3422'	
Fourth	Lt Gy	S	3422'	3432'	
SH & Slst	Gy	S	3432'	3507'	
Fifth	Lt Gy	S	3507'	3510'	*SG
SH & Slst	Gy	S	3510'	3584'	
Bayard	Lt Gy	S	3584'	3598'	*SG
SH & Slst	Gy	S	3598'	4033'	
Warren	Lt Gy	S	4033'	4064'	*SG
SH	Gy	S	4064'	4162'	T.D.

\*Shows from gas detector

(Attach separate sheets as necessary)

Haddad and Brooks, Inc.

Well Operator

By: Carl A. Boe Geologist

Date: 2-25-82

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AUG 20 1985

Department of Environmental Protection

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including those encountered in the drilling of a well."

10/02/2015



103012337 914900 10000

WW-4A  
Revised 6-07

1) Date: July 20, 2015  
2) Operator's Well Number Bumgardner # 1  
3) API Well No.: 47 - 103 - 01233

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

<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>David R Calderwood</u> ✓	Name _____
Address <u>4125 State Park Drive</u>	Address _____
<u>Akron, OH 44319</u>	_____
(b) Name _____	<b>(b) Coal Owner(s) with Declaration</b>
Address _____	Name <u>David R Calderwood</u> ✓
_____	Address <u>4125 State Park Drive</u>
(c) Name _____	<u>Akron, OH 44319</u>
Address _____	Name _____
_____	Address _____
<b>6) Inspector</b> <u>Derek Haught</u>	<b>(c) Coal Lessee with Declaration</b>
Address <u>P O Box 85</u>	Name _____
<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:**

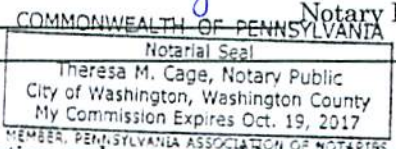
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 Haddad & Brooks, Inc  
 By: Jerrold J. Hopkins  
 Its: President  
 Address 30 East Beau Street, Suite 700  
Washington, Pa 15301  
 Telephone 724-228-8811

Subscribed and sworn before me this 6th day of August  
Theresa M. Cage Notary Public  
 My Commission Expires 10/19/17



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Office of Oil and Gas  
AUG 20 2015

**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).

10/02/2015

**SURFACE OWNER WAIVER**

Operator's Well  
Number

Bumgardner # 1

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A**

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.  
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I do not have objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,  
AGG 20 2015

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\_\_\_\_\_  
Signature

Date 8/13/15 Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_

\_\_\_\_\_  
WV Department of  
Environmental Protection  
\_\_\_\_\_  
Date

Signature 10/02/2015  
Date



WW-4B

API No.	<u>47 - 103 - 01233</u>
Farm Name	<u>Bumgardner # 1</u>
Well No.	<u>47-103-01233</u>

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator \_\_\_\_ / owner X / lessee \_\_\_\_ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 8/13/15

  \_\_\_\_\_

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

Its \_\_\_\_\_

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AUG 20 2015  
WV Department of  
Environmental Protection

10/02/2015

WW-9  
Rev. 5/08

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 103 - 01233  
Operator's Well No. Burgardner # 1

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 Haddad & Brooks, Inc. OP Code 307418

Watershed Little Fishing Creek Quadrangle Wileyville

Elevation 1420 County Wetzel District Proctor

Description of anticipated Pit Waste: Fluids from plugging operations

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

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 \_\_\_\_\_ )

*Dm4  
8-18-15*

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 *Jerrold J Hopkins*

Company Official (Typed Name) Jerrold J Hopkins

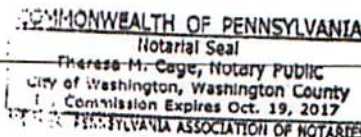
Company Official Title President

Subscribed and sworn before me this 6th day of August, 2015

*Theresa M. Cage*

Notary Public

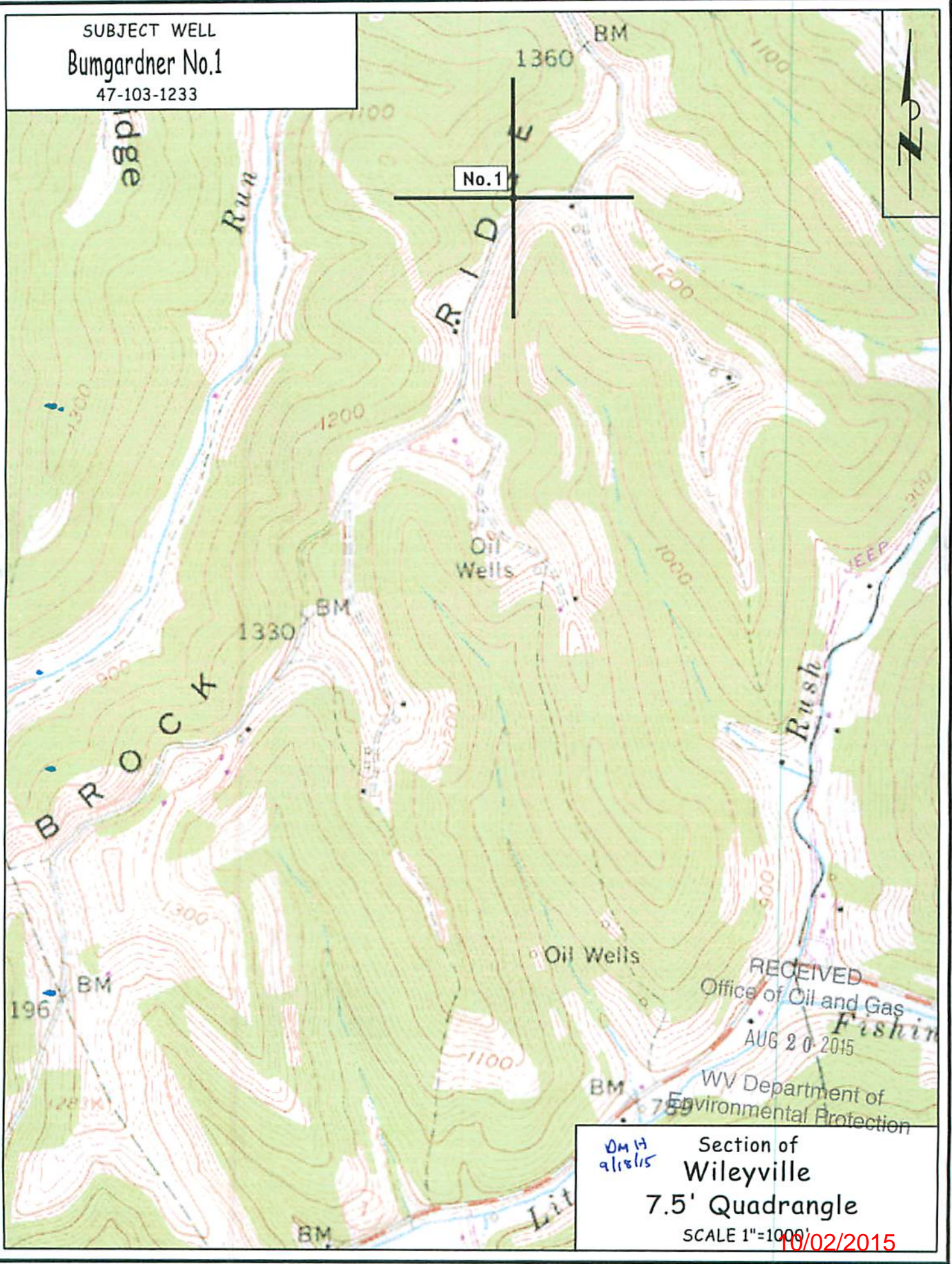
My commission expires 10/19/17



10/02/2015



SUBJECT WELL  
Bumgardner No.1  
47-103-1233



DMH  
alexis

Section of  
Wileyville  
7.5' Quadrangle  
SCALE 1"=1000'

10/02/2015



WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 47-103-01233 WELL NO.: Bumgardner 1

FARM NAME: Andrew Bungardner

RESPONSIBLE PARTY NAME: Jerrold J Hopkins

COUNTY: Wetzel DISTRICT: Proctor

QUADRANGLE: Wileyville

SURFACE OWNER: David R Calderwood

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: 4,388,940

UTM GPS EASTING: 526,648 GPS ELEVATION: 433'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS \_\_\_\_\_: Post Processed Differential \_\_\_\_\_  
Real-Time Differential \_\_\_\_\_

Mapping Grade GPS : Post Processed Differential \_\_\_\_\_  
Real-Time Differential \_\_\_\_\_

- Letter size copy of the topography map showing the well location.

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.

Jerrold J. Hopkins  
Signature

President

Title

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Aug 20 2015  
WV Department of  
Environmental Protection  
8/6/15  
Date

10/02/2015