



**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

September 25, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8501731, issued to DEEM, J. F. OIL & GAS, 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, Chief, is written over the text of his name and title.

James Martin  
Chief

Operator's Well No: A BELL 1  
Farm Name: BELL, ALMANZER - HEIRS  
**API Well Number: 47-8501731**  
**Permit Type: Plugging**  
Date Issued: 09/25/2014

## 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.

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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.

1) Date August 29, 2013  
2) Operator's  
Well No. A Bell 1  
3) API Well No. 47-065-01731

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 X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow \_\_\_

5) Location: Elevation 840 Watershed Brushy Fork  
District Union County Ritchie Quadrangle Auburn

6) Well Operator J F DEEM Oil & Gas Co 7) Designated Agent J F Deem  
Address 4541 Emerson Ave Address 4541 Emerson Ave  
Parkersburg WV 26104 Parkersburg, WV 26104

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name David Cowan Name Lucas Well Service, Inc  
Address Rt 1, Box 202 Address P O Box 4652  
Harrisville WV 26362 Parkersburg, WV 26104

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

See Attached

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

Work order approved by inspector  Date 11-4-13

A Bell 1

Manner of Plugging

47-085-01731

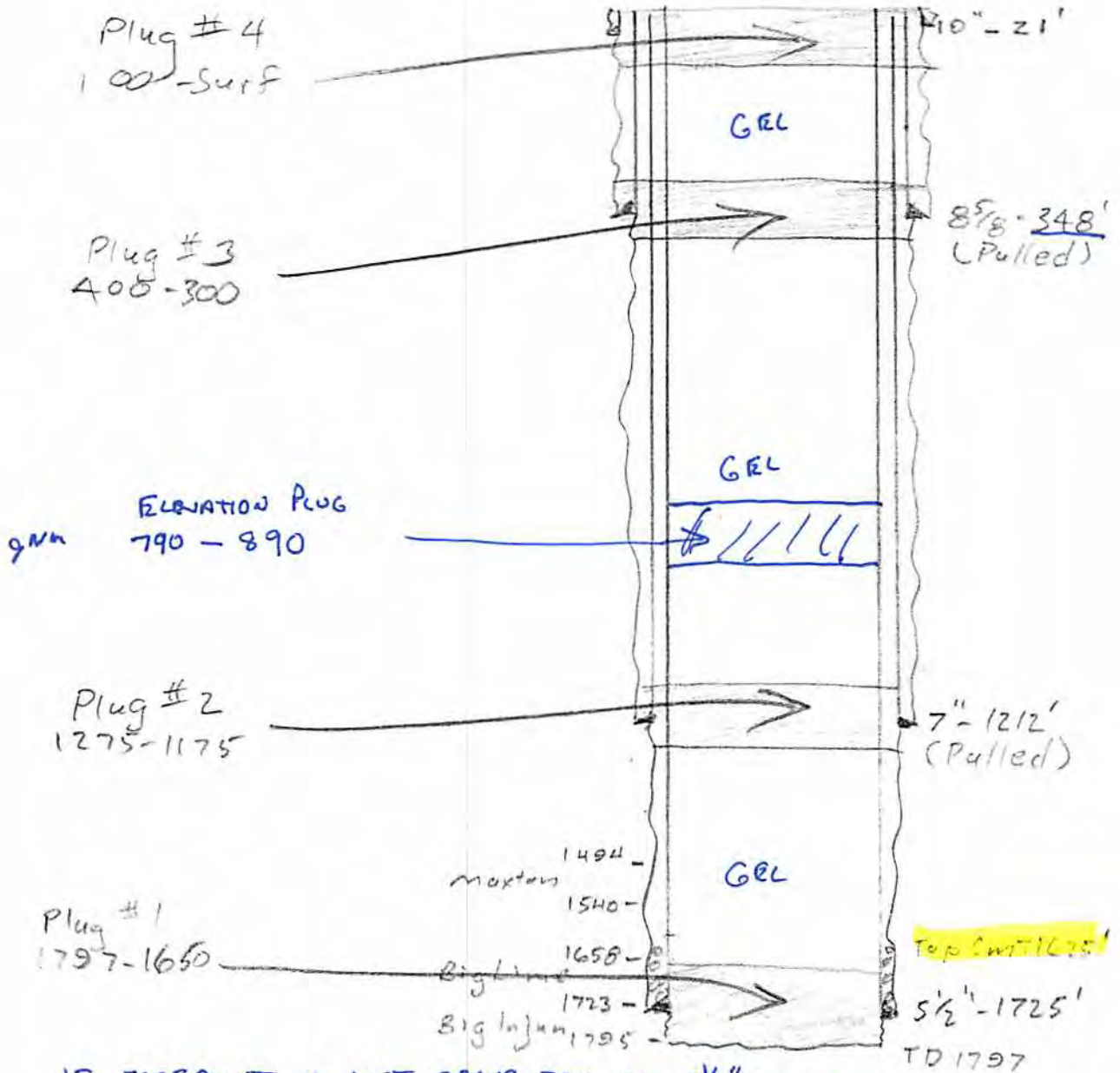
Cement	1797 - 1650
Gel	1650 - 1275
Cement	1275 - 400
Gel	400 - 300
Cut 5 1/2" casing @ 400 (or free point) and pull	
Cement	400 - 300
Gel	300 - 100
Cement	100 - surface

(FREE POINT SHOULD BE JUST ABOVE 1625' CEMENT TOP)  
 100' CASING CUT PLUG  
 & ELEVATION PLUG  
 ARE NEEDED.

Erect monument w/API Number

SEE PLUGGING DIAGRAM  
 AS IT HAS BEEN APPROVED.

A. Bell  
47-085-01731



IF FREEPOINT IS JUST ABOVE TOC ON 5 1/2" CASING THEN TRY TO <sup>CUT</sup>PULL CASING FROM THERE. (1600') AND SET 100' CEMENT PLUG ACROSS THAT CUT.

ERECT MONUMENT W/ API NUMBER

gmm

RECEIVED

JUL 15 1957

UNITED CARBON CO.  
GEOLOGICAL DEPT.

CG-10

Coal Dept.  
Map Posting  
Date  
Topographic 7/16/57  
Regional  
Farm  
Locality



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

94  
Quadrangle Hallrock

WELL RECORD

Oil or Gas Well Gas  
(RINO)

Permit No. RIT-1731

Company Plymouth Oil Company  
Address Benedum-Treas Bldg., Pittsburg, Pa.  
Farm Alamanger Bell Acres 160  
Location (waters)  
Well No. 1 Elev. 840  
District Union County Ditchie  
The surface of tract is owned in fee by A. Bell  
Address  
Mineral rights are owned by  
Address  
Drilling commenced 2-25-57  
Drilling completed 3-23-57  
Date <sup>frac</sup> shot 3-26-57 From 1723 To 1795  
With 300 bbls. crude oil  
Open Flow 28/10ths Water in 2 Inch  
/10ths Merc. in      Inch  
Volume 250,000 Cu. Ft.  
Rock Pressure 730 lbs. 2 1/2 hrs.  
Oil      bbls., 1st 24 hrs.  
WELL ACIDIZED  
WELL FRACTURED

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
10			Kind of Packor
11			
10 3/4	211	21	Size of
8 3/8	318	—	
8 1/2	1212		Depth set
8 3/16 5 1/2	1725	1725	
8			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE 5 1/2 No. Ft. 100' Date

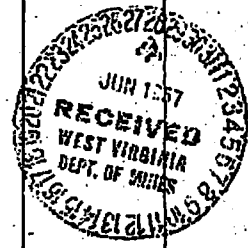
COAL WAS ENCOUNTERED AT      FEET      INCHES  
     FEET      INCHES      FEET      INCHES  
     FEET      INCHES      FEET      INCHES

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water 25 Feet Salt Water      Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sandy Soil			1	7	Water @ 25' - Hole Full		
Grainy Lime			7	15			
Slate			15	60			
Red Rock			60	130			
Slate & Shells			130	175			
Red Rock			175	195			
Lime			195	210			
Red Rock			210	230			
Lime			230	245			
Red Rock			245	255			
Slate & Shells			255	303			
Lime			303	320			
Yellow Clay			320	326			
Red Rock			326	330			
Slate & Shells			330	355			
Lime			355	385			
Slate			385	405			
Red Rock			405	480			
Slate			480	490			
Red Rock			490	515			
Lime & Slate			515	650			
Sand			650	670			
Slate & Lime			670	765			
Sand			765	790			
Slate & Lime			790	815			
Red Rock			815	825			
Slate & Lime			825	846			
Sand			846	892			
Slate & Lime			892	930			
Sand			930	955			



RIT-1731

(over)

Formation	Color	Hard or Soft	Top ?	Bottom	Oil, Gas or Water	Depth Found	Remarks
Pink Rock			955	962			
Lime			962	1015			
Slate			1015	1020			
Sand			1020	1035			
Slate & Lime			1035	1045			
Sand			1045	1085			
Slate & Shells			1085	1098			
Pink Rock			1098	1104			
Lime			1104	1125			
Sand			1125	1185			
Slate & Shells			1185	1245			
Sand			1245	1280			
Slate & Shells			1280	1302			
Lime			1302	1377			
Sand			1377	1430			
Lime			1430	1494			
Sand (Maxon sand)			1494	1540			
Slate & Shells			1540	1580			
Sand & Lime			1580	1620			
Little Lime			1620	1648			
Slate & Shells (Pencil Cave)			1648	1658			
Big Lime			1658	1723	65'		
Injun Sand			1723	1795	72'		
Slate			1795	1997			
							Pay 1770-85
							Gas 30/10" H <sub>2</sub> O in 1" Nipple
							Volume 65,000 ft. 3/day
Total Depth				1797			

Sand Frac Record

T.D. 1797 - S. I. Press. before frac. 730#  
 Fraced with 300 bbls. Crude oil and 11,000# sand, (20-40)  
 150 Gal. Gel. and 250# Acid (Caustic Soda)  
 Fraced @ 11:58 a.m. Tuesday, March 26, 1957  
 Completed @ 12:38 p.m. Formation broke down at 1800# to 900#. Avg. Injection pressure 1400#.  
 Final pressure 1000 p.s.i. and injection rate 16 bbls./min.  
 Well opened at 4:30 p.m. Flowed back 140 bbls. in 4 hours.

Date \_\_\_\_\_, 19\_\_

APPROVED \_\_\_\_\_, Owner

By \_\_\_\_\_ (Title)

CK 14579  
10000

1) Date: August 29, 2013  
2) Operator's Well Number A Bell 1  
3) API Well No.: 47 - 085 - 01731

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

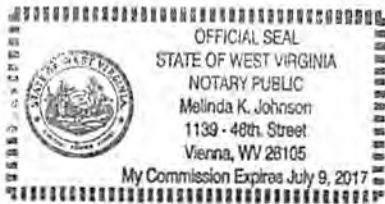
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Erma L Vannritter</u>	Name _____
Address <u>828 Brushy Fork Road</u>	Address _____
<u>Auburn, WV 26325</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector	(c) Coal Lessee with Declaration
Address _____	Name _____
	Address _____
Telephone _____	

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 J F Deem Oil & Gas Co  
 By: [Signature]  
 Its: Owner  
 Address 4541 Emerson Ave  
Parkersburg, WV 6104  
 Telephone 304 428-0005

Subscribed and sworn before me this 30th day of September, 2013  
Melinda K. Johnson Notary Public  
 My Commission Expires July 9, 2017

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).

RECEIVED  
Office of Oil and Gas  
WV Department of Environmental Protection



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> <i>Erma Van Natter</i> <input type="checkbox"/> Agent  <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Erma Van Natter</i> C. Date of Delivery <i>10-31-13</i></p>
<p>1. Article Addressed to:</p> <p><i>Erma L. Vannritter        828 Brushy Fork Rd.        Auburn, WV        26325</i></p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  <input checked="" type="checkbox"/> No        If YES, enter delivery address below:</p> <p>3. Service Type  <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label) <b>7012 2920 0000 7421 7932</b></p>	
<p>PS Form 3811, August 2001 Domestic Return Receipt 102595-02-M-1540</p>	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> <i>Lawrence Helk</i> <input type="checkbox"/> Agent  <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Lawrence Helk</i> C. Date of Delivery <i>10-31-13</i></p>
<p>1. Article Addressed to:</p> <p><i>Lawrence Helk        938 Brushy Fork Rd.        Auburn, WV 26325        2 Documents enclosed.</i></p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  <input checked="" type="checkbox"/> No        If YES, enter delivery address below:</p> <p>3. Service Type  <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label) <b>7012 2920 0000 7421 7925</b></p>	
<p>PS Form 3811, August 2001 Domestic Return Receipt 102595-02-M-1540</p>	

Received

NOV 14 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection

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 J F Deem Oil & Gas Co OP Code 307118

Watershed Brushy Fork Quadrangle Auburn 224

Elevation 840 County Ritchie 85 District Union 04

Description of anticipated Pit Waste: Fluids from plugging operations

Will a synthetic liner be used in the pit? ~~As needed~~ 20MIL

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 \_\_\_\_\_)

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.

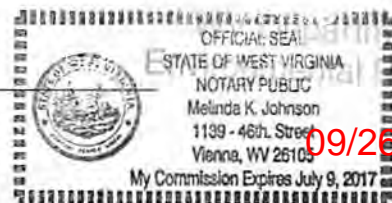
Company Official Signature *J F Deem*  
 Company Official (Typed Name) J F Deem  
 Company Official Title Owner

Subscribed and sworn before me this \_\_\_\_\_ day of September, 2013

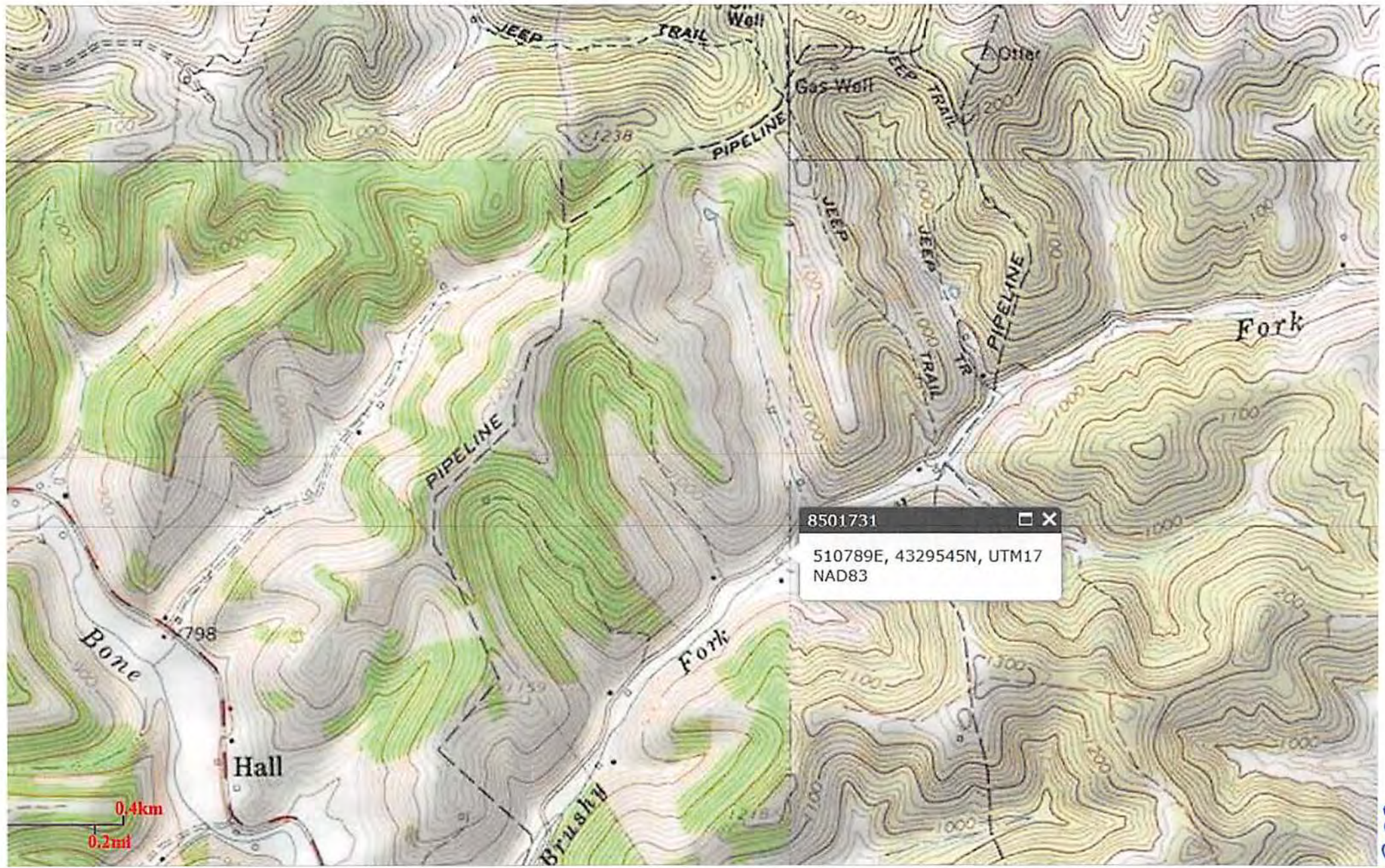
RECEIVED  
Office of Oil and Gas

Melinda K. Johnson Notary Public

My commission expires July 9, 2017



09/26/2014



8501731  
510789E, 4329545N, UTM17  
NAD83

8501731P

WW-7  
8-30-06



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

API: 47-085-01731 WELL NO.: A Bell1

FARM NAME: Erma L Vannritter

RESPONSIBLE PARTY NAME: J F Deem

COUNTY: Ritchie DISTRICT: Union

QUADRANGLE: Pullman

SURFACE OWNER: Erma L Vannritter

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

UTM GPS NORTHING: 4,329,545

UTM GPS EASTING: 510,789 GPS ELEVATION: 256M 839.7ft

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:

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 \_\_\_\_ : Post Processed Differential \_\_\_\_

Real-Time Differential \_\_\_\_

Mapping Grade GPS X : Post Processed Differential \_\_\_\_

Real-Time Differential \_\_\_\_

4. 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.

Signature J F Deem

Owner \_\_\_\_\_  
Title

9/30/13  
Date