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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 21, 2013

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8504358, 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.

James Martin  
Chief

Operator's Well No: 5-A  
Farm Name: SOUTHFORK SPORTSMAN ASSC  
**API Well Number: 47-8504358**  
**Permit Type: Plugging**  
Date Issued: 10/21/2013

**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.

8504358P

WW-4B  
Rev. 2/01

1) Date August 29, 20 13  
2) Operator's  
Well No. C Leeson 5-A  
3) API Well No. 47-085-04358

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 781 Watershed Otterslide Run  
District Union 04 County Ritchie 85 Quadrangle Auburn 224
- 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

OK

*[Handwritten Signature]*

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Office of Oil and Gas  
SEP 20 2013

WV Department of  
Environmental Protection

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

Work order approved by inspector \_\_\_\_\_ Date \_\_\_\_\_

ECLFV 781

## C Leeson 5-A

## Manner of Plugging

47-085-04358

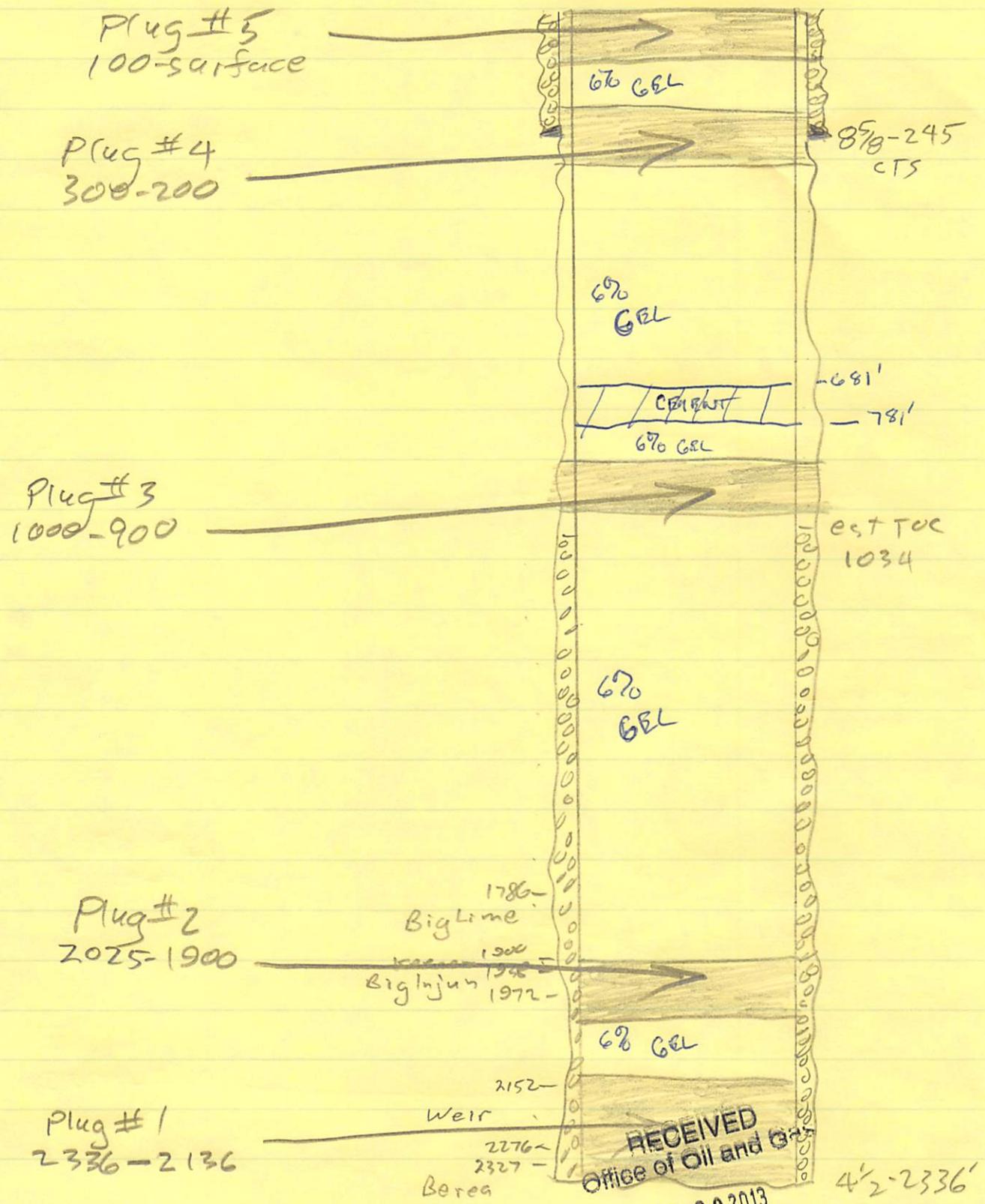
Cement	2336 - 2136	(BEREN)
Gel	2136 - <del>2025</del>	CEMENT PLUG 2025' - 1900' (INJUN)
Cut 4 1/2" casing @ 1000 (or free point) and pull		
GEL	1900' - 1000'	
Cement	1000 - 900	
Gel	900 - 300	
Cement	300 - 200	
Gel	200 - 100	
Cement	100 - surface	
Erect monument w/API Number		

CEMENT PLUGS MUST BE CLASS A CEMENT  
WITH NO MORE THAN 3%  $CaCl_2$  AND  
NO OTHER ADDITIVES.

GEL SPACERS WITH A MINIMUM OF 6% BENTONITE  
MUST FILL ALL VOLUMES THAT ARE NOT CEMENT.

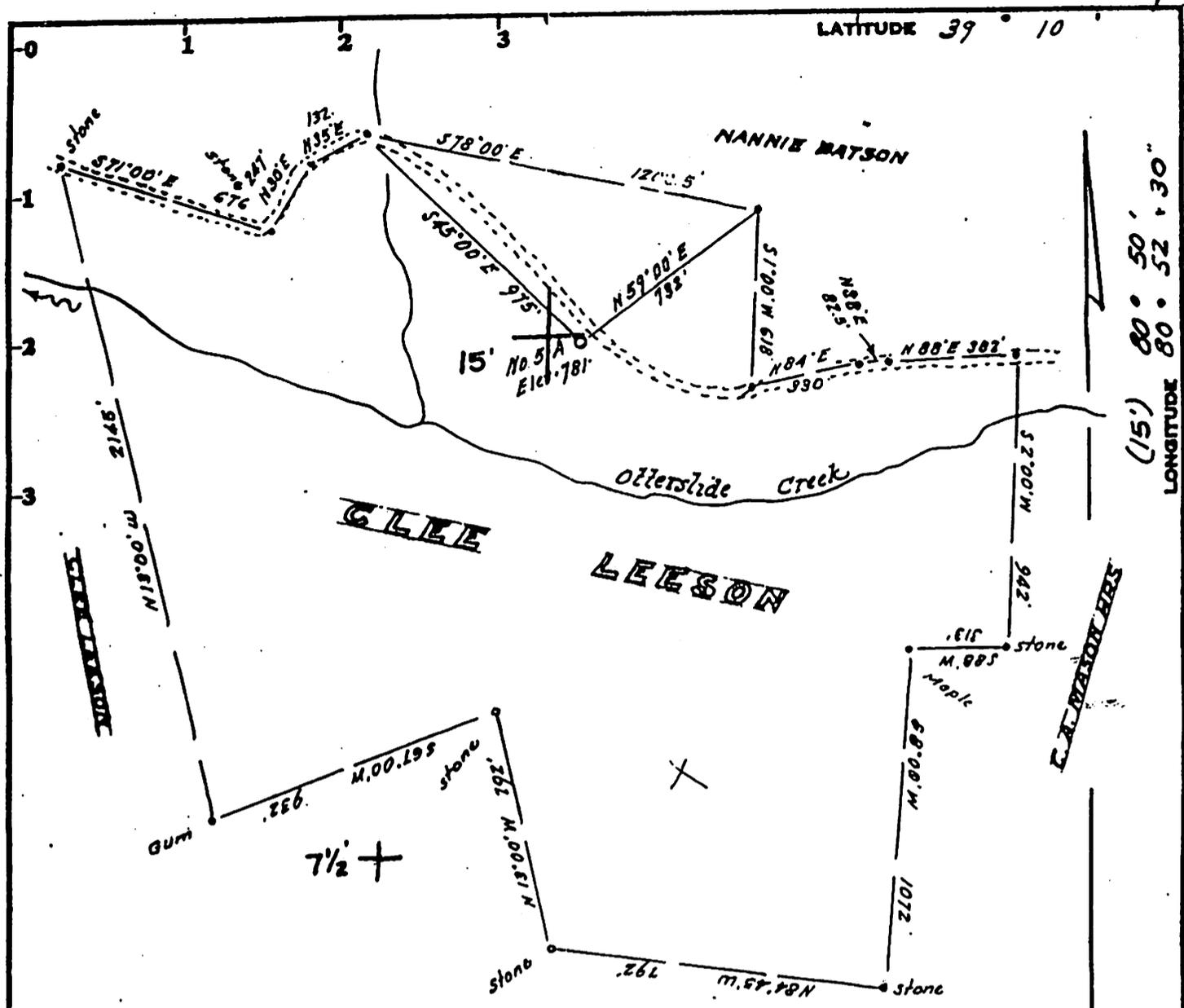
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Environmental Protection

Elev. 781'



SEP 20 2013

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**LEGEND**

- Lines plotted from deed calls
- Surveyed Lines
- Roads
- o Well Location

**OWNERSHIP**

No. known coal in this area  
Surface: - Clee Leeson, Auburn, W. Va.  
Oil & Gas: - Nannie Batson, et al  
Martinsburg, W. Va.

Minimum Error of Closure 1 in 200

Source of Elevation Elev. Well No. 1, 1257' Oil and Gas

- Fracture.....
- New Location...
- Drill Deeper.....
- Abandonment.....

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: [Signature]  
Squares: N S E W

Map No.

Company Ferrill L. Prier  
 Address 111 BANK TRUST BLDG PARKERSBURG W.Va.  
 Farm Clee Leeson  
 Tract \_\_\_\_\_ Acres 94 Lease No. \_\_\_\_\_  
 Well (Farm) No. 5-A Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 781'  
 Quadrangle Pullman 7 1/2 (HOLBROOK 15)  
 County Ritchie District Union  
 Surveyor [Signature]  
 Surveyor's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date August 1, 1979 Scale 1" = 500'

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
CHARLESTON

**WELL LOCATION MAP**  
FILE NO. 47-085-4358

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
**Oil and Gas Division**  
**WELL RECORD**

Rotary XX Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. XX  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Quadrangle Pullman 7.5  
Permit No. 47-085-4358

Company <u>Ferrell Prior</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>717 Union Trust Bldg. Parkersburg</u>				
Farm <u>Clee Leeson</u> Acres <u>94</u>	Size			
Location (waters) <u>Otterslide Creek</u>	20-16			
Well No. <u>Five A (5-A)</u> Elev. <u>789</u>	Cond.			
District <u>Union</u> County <u>Ritchie</u>	13-10"			
The surface of tract is owned in fee by _____	9 5/8			
<u>Clee Leeson</u>	8 5/8	245	245	120 sks.
Address <u>Auburn, WV</u>	7			
Mineral rights are owned by <u>Clee Leeson et al</u>	5 1/2			
Address <u>Same as above</u>	4 1/2		2336	230 sks.
Drilling Commenced <u>8/12/79</u>	3			
Drilling Completed <u>8/18/79</u>	2		2336	
Initial open flow <u>80,000</u> cu. ft. <u>1</u> bbls.	Liners Used			
Final production <u>1.3 MM</u> cu. ft. per day <u>2</u> bbls.				
Well open <u>6</u> hrs. before test <u>800</u> RP.				

Attach copy of cementing record.

Well treatment details:

Coal was encountered at N/A Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 75 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Injun, Berea Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Maxon			1708	1750		
Big Lime			1786	1900		
Keener			1900	1938		
✓ Big Injun			1938	1972		
✓ Weir			2152	2276		
✓ Berea			2327	2330		

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OCT 1 - 1979  
OIL & GAS DIVISION  
DEPT. OF MINES

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Department of Oil and Gas

(over)

\* Indicates Electric Log tops in the remarks section.

WW-4A  
Revised 6-07

1) Date: August 29, 2013  
2) Operator's Well Number  
C Leeson 5-A  
3) API Well No.: 47 - 085 - 04358

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

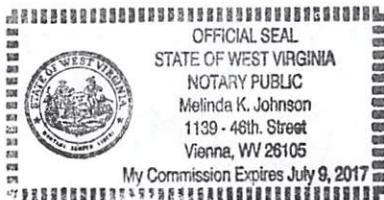
<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>Southfork Sportsman Assoc., Inc</u>	Name _____
Address <u>c/o Thomas Carnes</u>	Address _____
<u>211 Wiseman Ave., Bridgeport, WV 26330</u>	_____
(b) Name _____	<b>(b) Coal Owner(s) with Declaration</b>
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
<b>6) Inspector</b>	<b>(c) Coal Lessee with Declaration</b>
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: \_\_\_\_\_  
 Its: Owner  
 Address 4541 Emerson Ave  
Parkersburg, WV 6104  
 Telephone 304 428-0005

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Office of Oil and Gas  
SEP 20 2013

Subscribed and sworn before me this 17th day of September, 2013  
July 9, 2017  
 My Commission Expires \_\_\_\_\_  
 \_\_\_\_\_  
 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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

WV Department of  
Environmental Protection

8504358P

WW-9  
Rev. 5/08

Check # 14499  
20000

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 085 - 04358  
Operator's Well No. C Leeson 5-A

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 Otterslide Run Quadrangle Pullman

Elevation 781 County Ritchie District Union

Description of anticipated Pit Waste: Fluids from plugging operations

Will a synthetic liner be used in the pit? AS-needed 20 MIL.

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 \_\_\_\_\_

Company Official (Typed Name) J F Deem

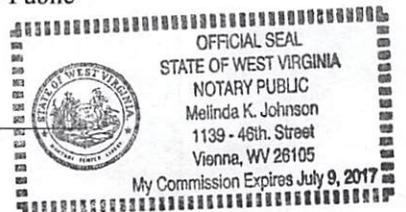
Company Official Title Owner

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SEP 20 2013  
WV Department of  
Environmental Protection

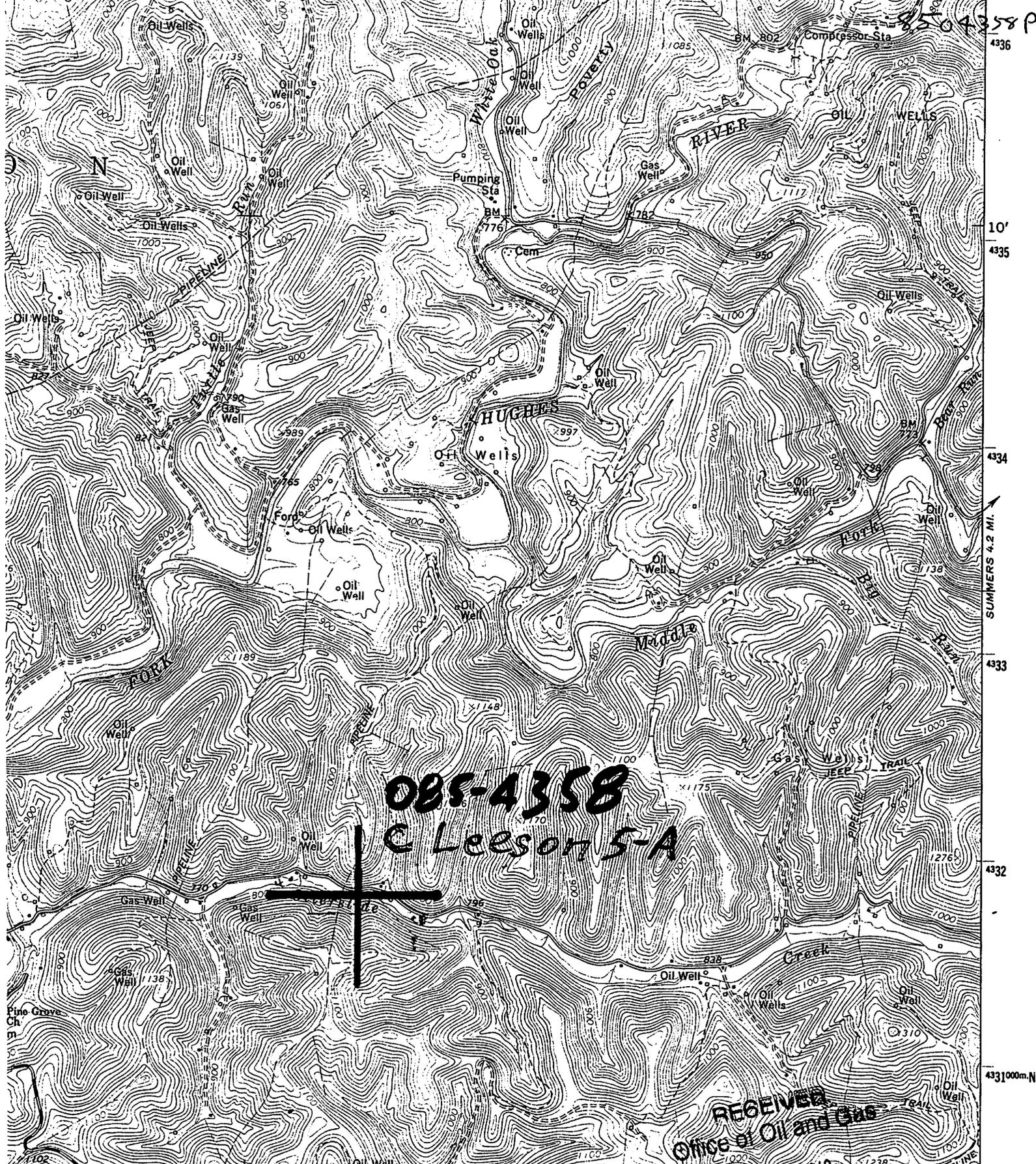
Subscribed and sworn before me this 17th day of September, 2013

Melinda K. Johnson Notary Public

My commission expires July 9, 2017



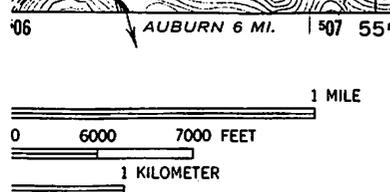
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**085-4358**  
**C Leeson 5-A**

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 Office of Oil and Gas

SEP 9 2013

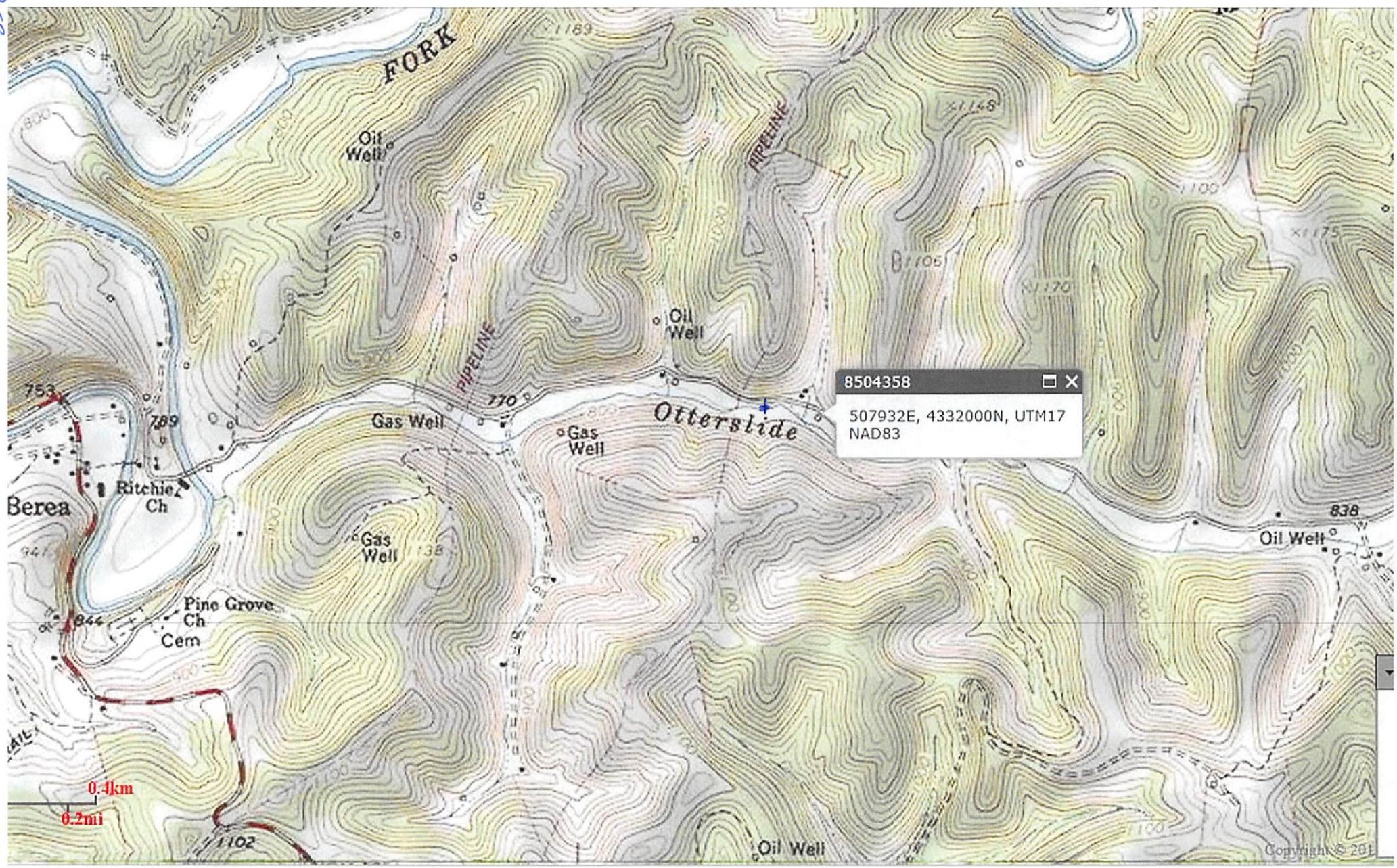


The Engineering Supply Co.  
 1316 12th St.  
 Parkersburg, WV 26101

WV Department of  
 ROAD CLASSIFICATION  
 Environmental Protection  
 Medium-duty \_\_\_\_\_ Light-duty \_\_\_\_\_  
 Unimproved dirt =====



8504358P



8504358

507932E, 4332000N, UTM17  
NAD83

0.4km  
0.2mi

8504358P

WW-7  
8-30-06



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

API: 47-085-04358 WELL NO.: Leeson 5-A

FARM NAME: Southfork Sportsman Assoc. Inc.

RESPONSIBLE PARTY NAME: J F D eem

COUNTY: Ritchie DISTRICT: Union

QUADRANGLE: Auburn

SURFACE OWNER: South Fork Sportsman Assoc., Inc.

ROYALTY OWNER: C. Leeson

UTM GPS NORTHING: 4,332,000

UTM GPS EASTING: 507,932 GPS ELEVATION: 238M

781 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 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 \_\_\_\_

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Office of Oil and Gas  
SEP 20 2013

WV Department of  
Environmental Protection

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.

J F D eem  
Signature

Owner  
Title

9/17/13  
Date