



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

February 10, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8504149, 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: C Leeson 1
Farm Name: SOUTHFORK SPORTSMAN ASS.
API Well Number: 47-8504149
Permit Type: Plugging
Date Issued: 02/10/2014

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.

CONDITIONS

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. C Leeson 1
3) API Well No. 47-085-04149

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 842 Watershed Otterslide Run
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.

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Office of Oil and Gas
DEC 06 2013

Work order approved by inspector *David Cowan*

Date 11-19-13 WV Department of Environmental Protection

02/14/2014

8504149 P
me

C Leeson 1

Manner of Plugging

47-085-04149

Cement	2210 - 2100
Gel	2100 - 1850
Cement	1800 - 1700
Gel	1700 - 800
Cut 4 1/2" casing @ 800 (or free point) and pull	
Cement	800 - 700
Gel	700 - 325
Cement	325 - 225
Gel	225 - 100
Cement	100 - surface

Erect monument w/API Number

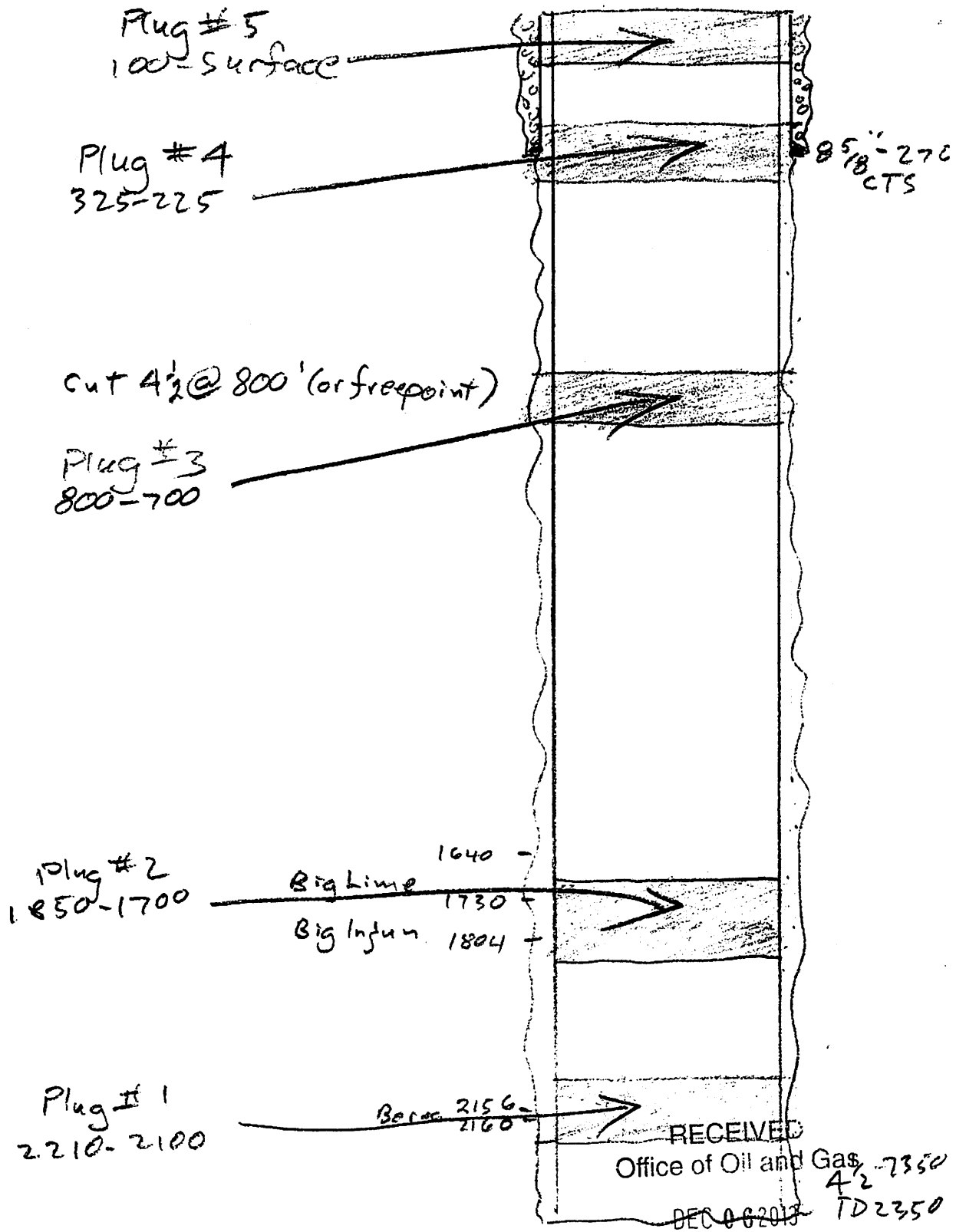
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Office of Oil and Gas

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WV Department of
Environmental Protection

02/14/2014

C. Leeson I
47-085-09149



WV Department of
Environmental Protection

02/14/2014

OG-10
Rev. 9-71
14



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 14

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

Quadrangle Pullman 7.5
Permit No. 885-RT-4149

Company <u>Ferrell Prior</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P. O. Box 1486 Parkersburg, W. Va.</u>	Size			
Farm <u>Nannie Batson</u> Acres <u>35</u>	20-16			
Location (waters) <u>Otterslide Creek</u>	Cond.			
Well No. <u>One (1)</u> Elev. <u>842</u>	13-10"			
District <u>Union</u> County <u>Ritchie</u>	9 5/8			
The surface of tract is owned in fee by <u>Clee & Tessie Leeson</u>	8 5/8	270	270	Circulated 230 sks.
Address <u>Bera, West Virginia</u>	7			
Mineral rights are owned by <u>Nannie Batson et al</u> Address <u>Weirton, West Virginia</u>	5 1/2			
Drilling Commenced <u>11/28/78</u>	3			
Drilling Completed <u>12/3/78</u>	2			
Initial open flow <u>60,000</u> cu. ft. <u>Show</u> bbls.	Liners Used			
Final production <u>1,200.00</u> Qi. per day <u>1</u> bbls.				
Well open <u>10</u> hrs. before test <u>675</u> RP.				

Attach copy of cementing record.

Well treatment details:
Fractured Dowell, Inc. 40,000 lb. Sand, 1600 HP
1200 Barrels of H2O and Additives

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Soil			0	65		
Sand			65	105		
Shale			105	175		
Sand			175	217		
Shale			217	333		
Sand			333	368		
Shale			368	402		
Sand			402	513		
Shale			513	557		
Sand			557	609		
Shale			609	650		
Sand			650	701		
Shale			701	832		
Sand			832	906		
Lime			906	990		
Shale			990	1017		
Sand			1017	1052		
Shale			1052	1207		
Sand			1207	1260		
Shale						

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Office of Oil and Gas
DEC 06 2013
MAY - 7 1980
OIL & GAS DIVISION
DEPT. OF MINES
WV Department of Environmental Protection

02/14/2014

RIT-4149

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			1550	1587		
Sand			1587	1620		
Little Lime			1620	1632		
Shale			1632	1640		
Shale			1640	1653		
Coffee Shale			1653	1674		
Big Lime			1674	1730		
Berea Sand			1730	1807		Show Oil & Gas
Iron Shale			1807	1830		
Sandy Shale			1830	1850		
Shale			1850	1870		
Shale			1870	1904		
Shale			1904	1938		Show Gas
Sandy Lime			1938	1984		
Shale			1984	2114		Show Gas & Oil
Sand			2114	2156		
Shale			2156	2160		
1st Berea			2160	2182		
Shale			2182	2186		
2nd Berea			2186	2261		
Shale			2261	2321		Oil and Gas
Sand			2321	2350		
Shale						

Date 5/7 19 88
 Date 5/7 19 88
 APPROVED [Signature] Owner
 APPROVED [Signature] Owner

02/14/2014

8504149A
OK 14609600
100

1) Date: August 29, 2013
2) Operator's Well Number C Leeson 1

3) API Well No.: 47 - 085 - 04149

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>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) 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

RECEIVED
Office of Oil and Gas
NOV 18 2013
WV Department of
Environmental Protection

Subscribed and sworn before me this 15th 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.

02/14/2014

8504149P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 085 - 04149
Operator's Well No. C Leeson 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 J F Deem Oil & Gas Co OP Code 307118

Watershed Otterslide Run Quadrangle Pullman

Elevation 842 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 g. m. m.

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

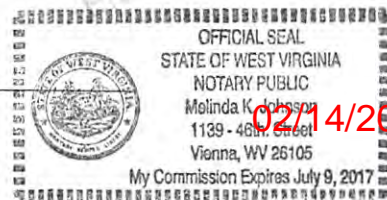
Company Official (Typed Name) J F Deem

Company Official Title Owner

Subscribed and sworn before me this 15th day of September, 2013
October

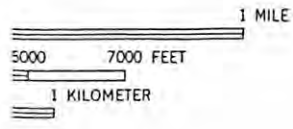
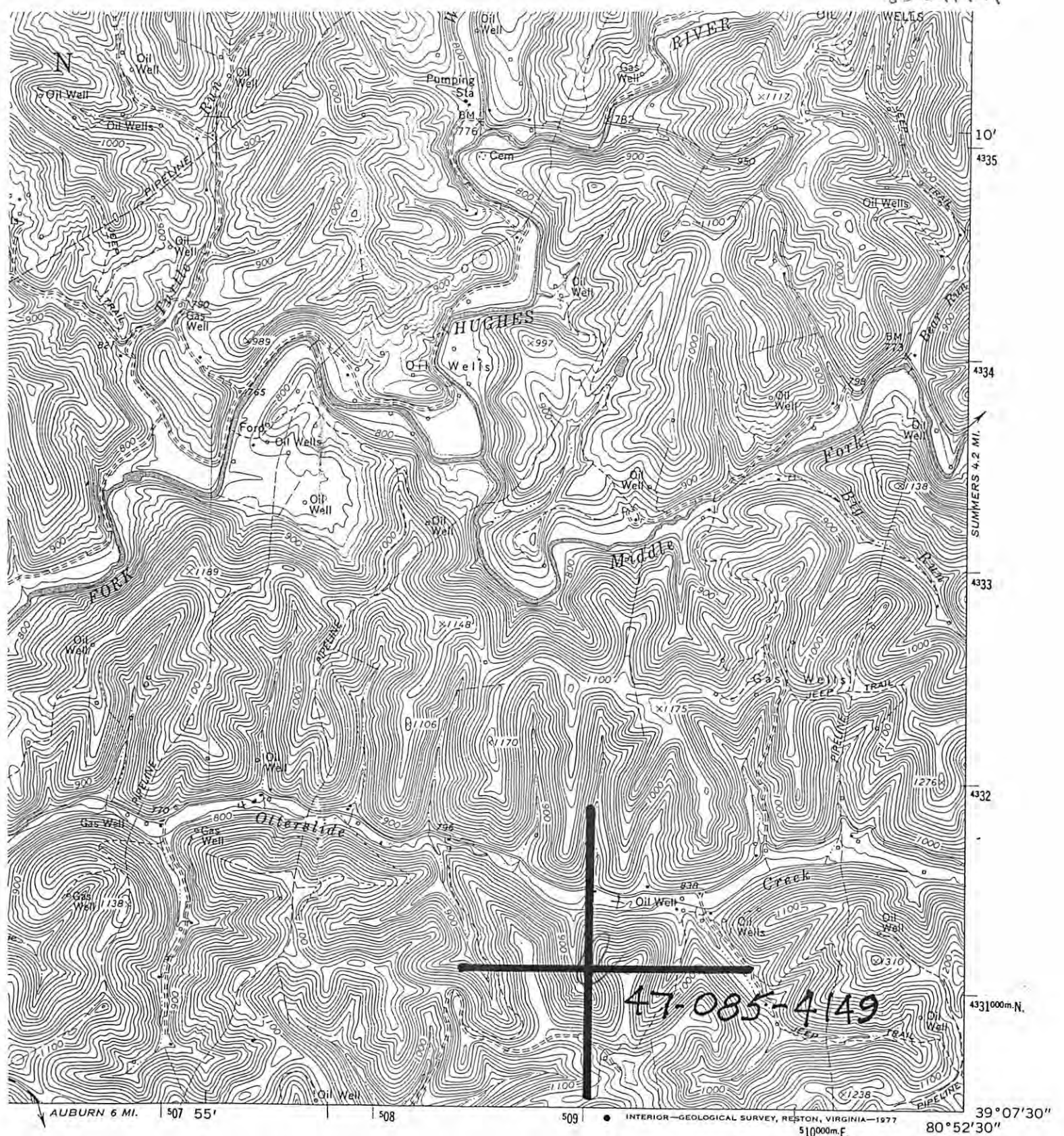
Melinda K. Johnson Notary Public

My commission expires July 9, 2017



02/14/2014

8504149P



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



RECEIVED
 Office of Oil and Gas
 ROAD CLASSIFICATION
 Medium-duty _____ Light-duty _____
 Unimproved dirt =====
 WV Department of
 Environmental Protection
 PULLMAN, W. VA.
 NW/4 HOLBROOK 15' QUAD
 N3907.5—W8052.5/7.5

CARDS
 22092
 ON REQUEST

02/14/2014

(AUBURN)
 #662 III SE

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-085-04149 WELL NO.: Leeson 1

FARM NAME: Southfork Sportsman Assoc., Inc.

RESPONSIBLE PARTY NAME: J. F. Deem

COUNTY: Ritchie DISTRICT: Union

QUADRANGLE: Auburn

SURFACE OWNER: Southfork Sportsman Assoc. Inc.

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,331,389

UTM GPS EASTING: 508,981 GPS ELEVATION: 842 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 X: Post Processed Differential ____
Real-Time Differential ____

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Office of Oil and Gas

FEB 10 2014

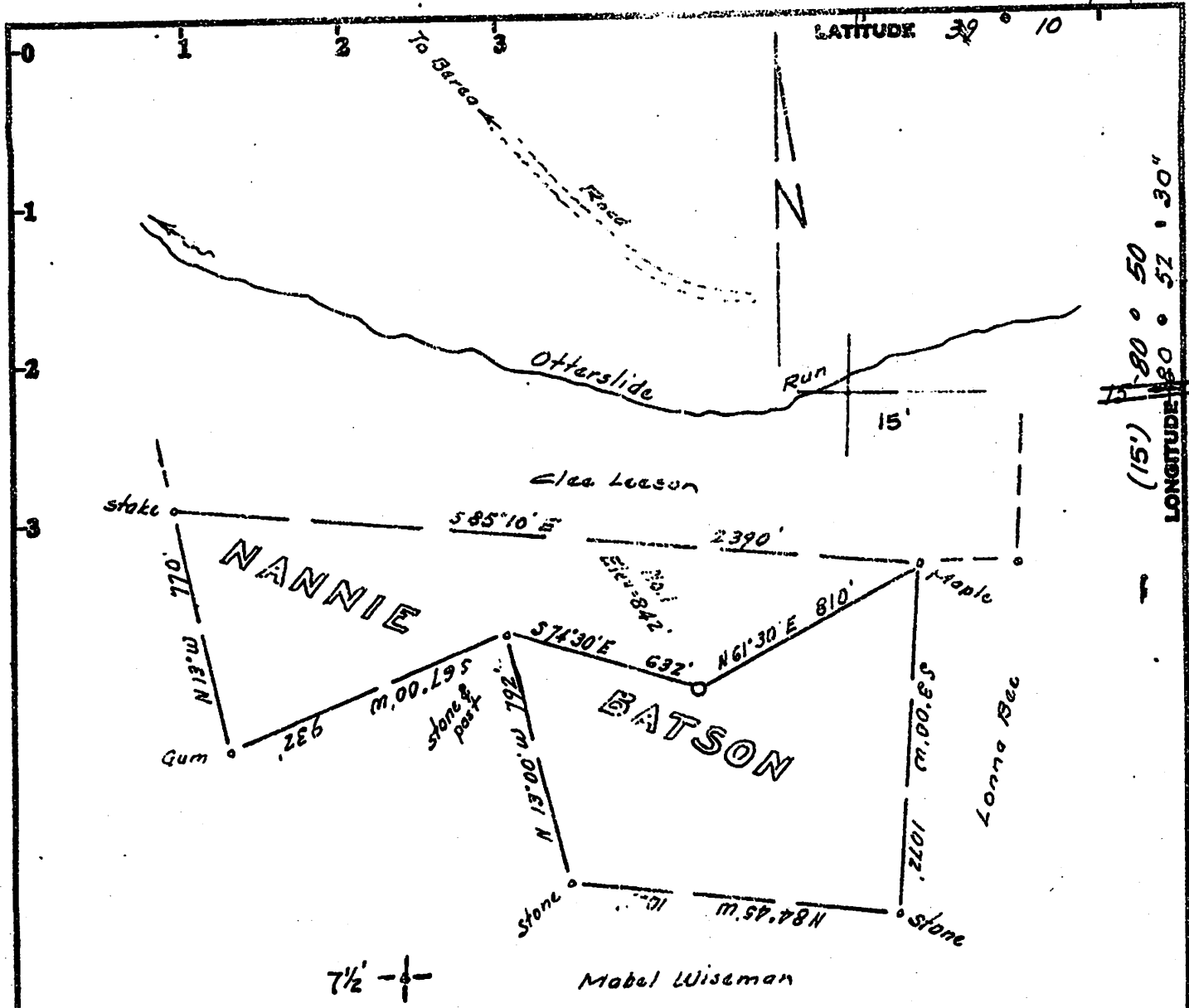
WV Department of
Environmental Protection

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. Deem Signature Operator Title 2/10/14 Date

8504149 P
10/19/78



No Coal in Ritchie County.
Surface owned by:-
Nannie Batson Heirs
Pullman, W. Va.

Minimum Error of Closure 1 in 200
Source of Elevation USGS location 1200' west = 770'

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.

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

Signed: W. H. Steel
Squares: N S E W

Map No. _____

Company Ferrall L. Prior
Address 717 Union Trust Bldg. Parkersburg
Farm Nannie Batson, Clee Leason et al
Tract _____ Acres 35 Lease No. _____
Well (Farm) No. One Serial No. _____
Elevation (Spirit Level) 842'
Quadrangle Pullman 7 1/2, Holbrook 15'
County Ritchie District Union
Engineer W. H. Steel
Engineer's Registration No. 1227 665 200
File No. _____ Drawing No. _____
Date October 19, 1978 Scale 1" = 500'

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

WELL LOCATION MAP
FILE NO. RIT-4149 02/14/2014

+ Denotes location of well on United States Topographic Maps, scale 1 to ^{24,000}/_{62,500}, latitude and longitude lines being represented by border lines as shown.

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

47-085

WW-7
8-30-06



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

API: 47-085-04149 WELL NO.: Leeson 1
FARM NAME: Southfork Sportsman Assoc., Inc.
RESPONSIBLE PARTY NAME: J F Deem
COUNTY: Ritchie DISTRICT: Union
QUADRANGLE: Auburn
SURFACE OWNER: Southfork Sportsman Assoc., Inc.
ROYALTY OWNER: _____
UTM GPS NORTHING: 4,331,654
UTM GPS EASTING: 509,039 GPS ELEVATION: 257M

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.

J F Deem
Signature

Owner

Title

10/15/13
Date

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Office of Oil and Gas
DEC 06 2013
Department of Environmental Protection

02/14/2014

WW-7
8-30-06



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

API: 47-085-04149 WELL NO.: Leeson 1

FARM NAME: Southfork Sportsman Assoc., Inc.

RESPONSIBLE PARTY NAME: J F Deem

COUNTY: Ritchie DISTRICT: Union

QUADRANGLE: Auburn

SURFACE OWNER: Southfork Sportsman Assoc., Inc.

ROYALTY OWNER: _____

UTM GPS NORTHING: ~~4,331,654~~ 4331389

UTM GPS EASTING: ~~509,039~~ 508981 GPS ELEVATION: 257M (842')

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.

J F Deem
Signature

Owner
Title

10/15/13
Date

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Office of Oil and Gas
October 15 2013
West Virginia Department of Environmental Protection