



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

July 23, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8506596, issued to MUTSCHELKNAUS, CLARENCE W, 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: Douglas Bowie
API Well Number: 47-8506596
Permit Type: Plugging
Date Issued: 07/23/2015

Promoting a healthy environment.

07/24/2015

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.

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.

85065964

WW-4B
Rev. 2/01

1) Date May 22, , 20 115
2) Operator's
Well No. Brooks # 3
3) API Well No. 47-085 - 06596

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

5) Location: Elevation 987 Watershed Whiskey Run
District Clay County Ritchie Quadrangle Ellenboro

6) Well Operator Clarence W Mutschelknaus 7) Designated Agent Clarence W Mutschelknaus
Address P O Box 351 Address P O Box 351
Salem WV 26426 Salem, WV 26426

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name David Cowan Name Lucas Well Service, Inc
Address 1597 Devil Hole Rd Address P O Box 4652
Harrisville WV 26362-7543 Parkersburg, WV 26104

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

See Attached

RECEIVED
Office of Oil and Gas
JUN 25 2015
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 *David Cowan* Date 6-5-15

07/24/2015

Brooks # 3

Manner of Plugging

47-085-06596

Cement 2850 - 2750

Gel 2750 - 2410

Cut 5 1/2" casing @ 1500 (or free point) and pull

SET PLUG 2 @
2410' - 2310'
JRM

Cement 1500 - 1400

Gel 1400 - 350

Cement 1000 - 900
Gel 900 - 350
Cement 350 - 250

Gel 250 - 100

Cement 100 - surface

Erect monument w/API Number

RECEIVED
Office of Oil and Gas

JUN 25 2015

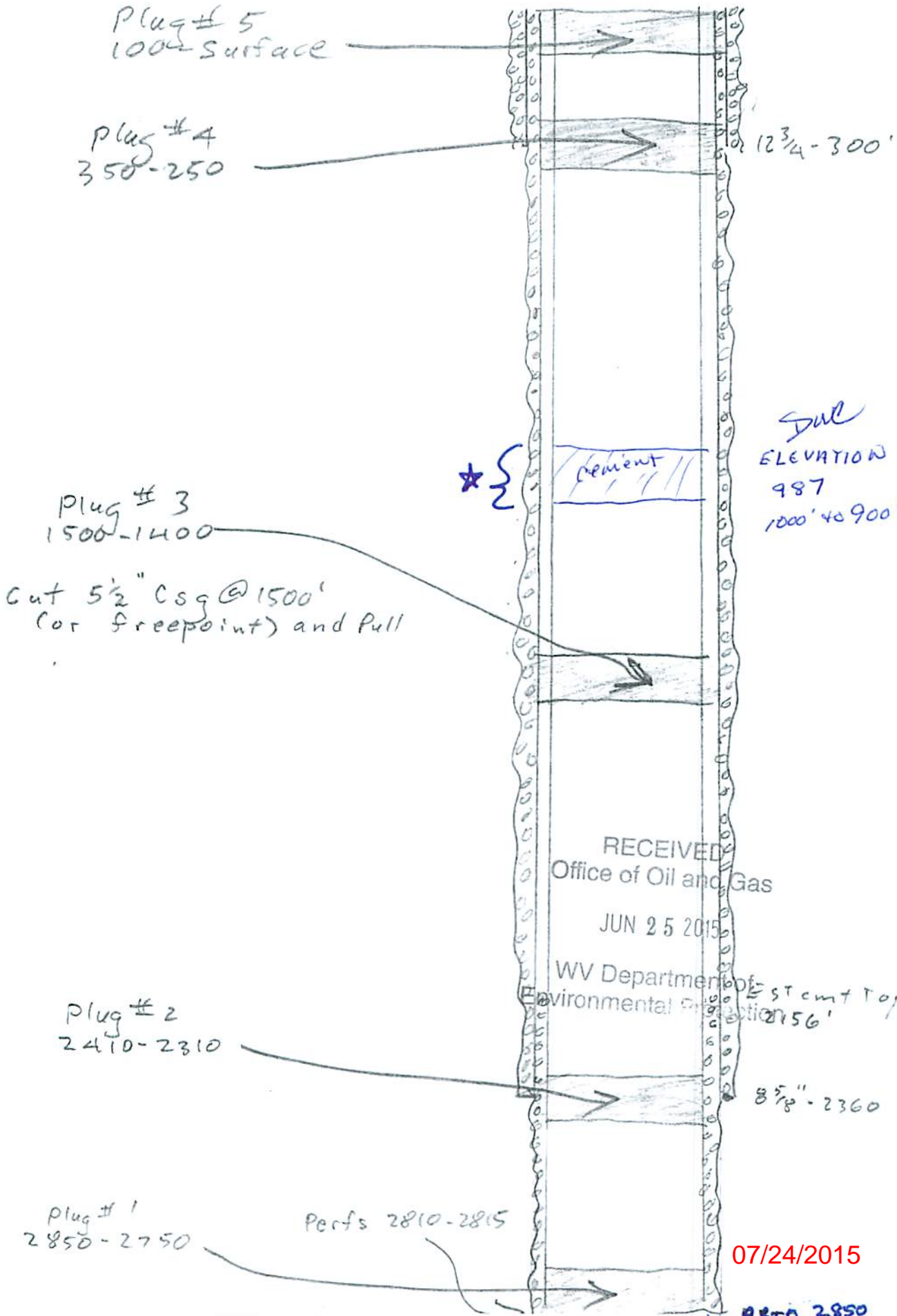
WV Department of
Environmental Protection

Brooks 3

8506596 A

A7-085-06596

El 1013



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

APR 07 1988

- 1) Well Operator: B & C Oil & Gas 2270 (1) 337
- 2) Operator's Well Number: 1 3) Elevation: 1013
- 4) Well type: (a) Oil / or Gas X/
(b) If Gas: Production / Underground Storage /
Deep / Shallow X/
- 5) Proposed Target Formation(s): Fracture the Gordon
- 6) Proposed Total Depth: 2850 feet
- 7) Approximate fresh water strata depths: N/A
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes / No X/
- 11) Proposed Well Work: Set plug about 4,000 ft. PLS well back to 2850 feet
- 12) and fracture the well.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		Weight per ft.	FOOTAGE; INTERVALS	Left in well	CEMENT
	Size	Grade				
Conductor	12 3/4		24		300	120 sks
Fresh Water						
Coal						
Intermediate	8 5/8		24		2360	659 sks
Production	5/2		15		5990	
Tubing						
Liners						

25133

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Office of Oil and Gas

JUN 04 1988

PACKERS : Kind No Packer used
Sizes _____
Depths set _____
WV Department of Environmental Protection

For Office of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond _____ Agent
(Type)

WR-35
 RECEIVED
 Office of Oil & Gas
 Pennington
 MAY 16 2000
 WV Division of
 Environmental Protection

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

Reviewed _____

Well Operator's Report of Well Work

Farm name: BOWIE, DOUGLAS Operator Well No.: 1

LOCATION: Elevation: 2,850.00 Quadrangle: ELLENBORO

District: CLAY County: RITCHIE
 Latitude: 9080 Feet South of 39 Deg. 20Min. 0 Sec.
 Longitude 2210 Feet West of 81 Deg. 5 Min. 0 Sec.

Company: MUTSCHELKNAUS, CLARENCE W
 170 E. MAIN ST. P.O. BOX 351
 SALEM, WV 26426-0351

Agent: NORMAN J. OLLEY

Inspector: SAM HERSMAN
 Permit Issued: 07/23/98
 Well work Commenced: 03/08/00
 Well work Completed: 04/30/00
 Verbal Plugging
 Permission granted on: _____
 Rotary Cable Rig
 Total Depth (feet) 4,000
 Fresh water depths (ft) _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
12 3/4		300	120 sks
8 5/8		2360	659 sks
5 1/2		5990	540 sks

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? _____
 Coal Depths (ft): _____

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2809
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/c
 Final open flow 10,000 MCF/d Final open flow _____ Bbl/c
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure 50 lbs psig (surface pressure) after 50 lbs Hours

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/c
 Final open flow _____ MCF/d Final open flow show _____ Bbl/c
 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.

Clarence W. Mutschelknaus
 For: MUTSCHELKNAUS, CLARENCE W.

By: Owner
 Date: 05/15/00

FORM WV-4(B) FILE COPY
Obverse
10-91



1) Date: April 3, 1998 : 19__
2) Operator's Well No. 1
3) API Well No. 47 085 6596
State County Permit

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
APPLICATION FOR A PERMIT TO PLUG & ABANDON

4) WELL TYPE: A Oil _____ / Gas X / Liquid injection _____ / Waste disposal _____
B (If "Gas", Production _____ / Underground storage _____ / Deep _____ Shallow X /)
5) LOCATION: Elevation: 1013 Watershed: Brooks Hollow
District: Clay County: Ritchie Quadrangle: Ellenboro 7.5
6) WELL OPERATOR B & C Oil & Gas CODE 7) DESIGNATED AGENT Clarence W. Mutschelknaus
Address P.O. Box 351 Address P.O. Box 351
Salem, WV 26426 Salem, WV 26426
8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) PLUGGING CONTRACTOR
Name Samuel Hershman Name Clarence W. Mutschelknaus
Address Rt 1, Box 240 Address P.O. Box 351
Harrisville, WV 26362 Salem, WV 26426

10) WORK ORDER: The work order for the manner of plugging this well is as follows:
Set 5 sack cement plug at 4,000 ft, then gel hole to 2950 ft, Set 5 sack cement plug from 2950 ft to 2850 ft. Perforate casing from 2810 to 2815 and fracture.

REC'D
OFFICE OF OIL AND GAS

APR 07 1998

WV Division of
Environmental Protection

OFFICE USE ONLY
PLUGGING PERMIT

Permit number _____ Date _____ 19__

This permit covering the well operator and well location shown below is evidence of permission granted to plug in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, subject to any modifications and conditions on the reverse hereof.

Permit expires _____ unless plugging is commenced prior to that date and prosecuted with due diligence

Bond:	Agent:	Plat	Casing	WPCP	OTHER
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Chief, Office of Oil & Gas

NOTE Keep one copy of this permit posted at the plugging location.

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator

07/24/2015

CK# 2245
100-00 8506596 P

WW-4A
Revised 6-07

1) Date: May 22, 2015
2) Operator's Well Number
Brooks # 3
3) API Well No.: 47 - 085 - 06596

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>Douglas Bowie</u>	Name _____
Address <u>Rt 1, Box 170</u>	Address _____
<u>Cairo WV 26337</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>David Cowan</u>	(c) Coal Lessee with Declaration
Address <u>1597 Devil Hole Road</u>	Name _____
<u>Harrisville WV 26362-7543</u>	Address _____
Telephone <u>304-389-3509</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.

RECEIVED
Office of Oil and Gas

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse side. However, you are not required to take any action at all.

JUN 04 2015

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice of Intent 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.

WV Department of Environmental Protection

Well Operator Clarence W Mutschelknaus
 By: Clarence W Mutschelknaus
 Its: Owner
 Address P O Box 351
Salem, WV 26426
 Telephone 304 782-2707

Subscribed and sworn before me this 1st day of September, 2013 June 2015
Joyce Siders
My Commission Expires 11-13-2016

OFFICIAL SEAL
 STATE OF WEST VIRGINIA
 NOTARY PUBLIC
 Joyce Siders
 Rt. 4, Box 472
 Salem, WV 26426
 My Commission Expires Nov. 13, 2016

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.

07/24/2015

8506596P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 085 - 006596
Operator's Well No. Brooks # 3

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 Clarence W Mutschelknaus OP Code 306522

Watershed Whiskey Run Quadrangle Ellenboro

Elevation 987 County Ritchie District Clay

Description of anticipated Pit Waste: Fluids from plugging operations

Will a synthetic liner be used in the pit? Yes 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 Clarence W Mutschelknaus

Company Official (Typed Name) Clarence W Mutschelknaus

Company Official Title Owner

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Office of Oil and Gas

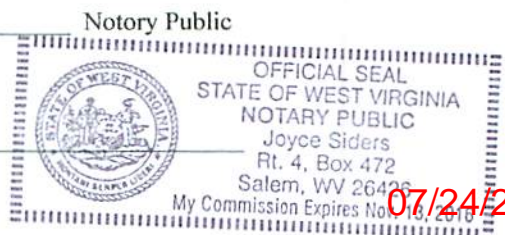
JUN 04 2015

WV Department of
Environmental Protection

Subscribed and sworn before me this 1st day of June, 2015

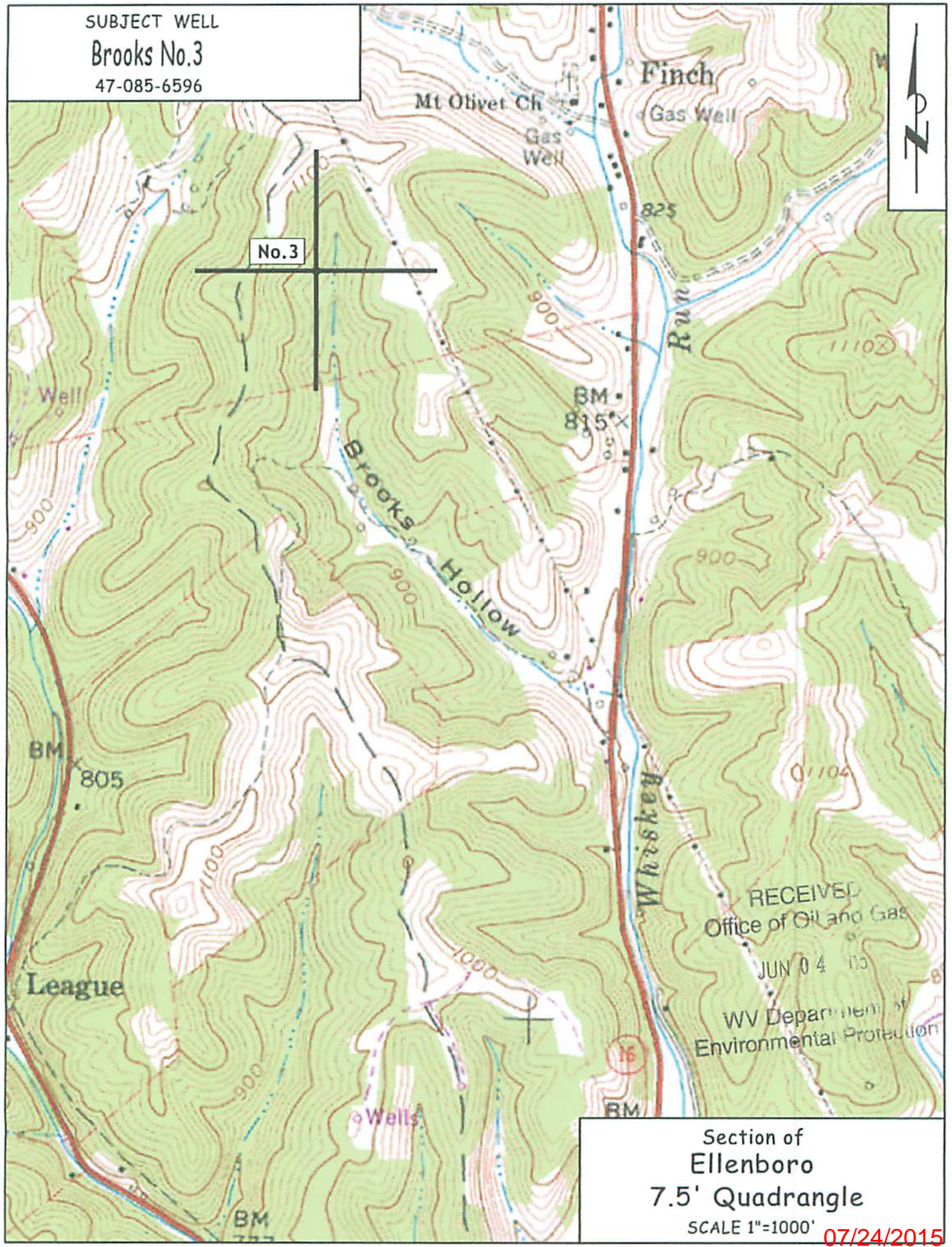
Joyce Sidus

My commission expires 11-13-2016



07/24/2015

SUBJECT WELL
Brooks No.3
47-085-6596



RECEIVED
Office of Oil and Gas
JUN 04 113
WV Department of
Environmental Protection

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

85 06596P

WW-7
8-30-06



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

API: 47-085-06596 WELL NO.: Brooks # 3

FARM NAME: Douglas Bowie

RESPONSIBLE PARTY NAME: Clarence W Mutschelknaus

COUNTY: Ritchie DISTRICT: Clay

QUADRANGLE: Ellenboro

SURFACE OWNER: Douglas Bowie

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,351,060

UTM GPS EASTING: 492,255 GPS ELEVATION: 301m (987')

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 ____

- 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.

Clarence W Mutschelknaus Owner
Signature Title

10-1-15
Date

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Office of Oil and Gas

JUN 04 2015

WV Department of
Environmental Protection

07/24/2015