



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

October 09, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9901957, issued to CHESAPEAKE APPALACHIA, L.L.C., 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: 823443
Farm Name: BENNETT, PHYLLIS
API Well Number: 47-9901957
Permit Type: Plugging
Date Issued: 10/09/2015

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

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.



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601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0499
fax: (304) 926-0452

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

October 9, 2015

Mr. Woodrow Queen
P. O. Box 89
Gratis, Ohio 45330

Re: Permit Application for API: 47-099-01957 Plugging

Dear Mr. Queen:

The Office of Oil and Gas (OOG) has completed its review of the above referenced permit application submitted by Chesapeake Appalachia, L.L. C. The Wayne County oil and gas inspector examined the site to ensure compliance with all applicable requirements of Article 6, Chapter 22 of the West Virginia Code and Legislative Rule Title 35, Series 4. Also, your comments were sent to the applicant to ensure it was aware of your concerns. The applicant's response is enclosed for your records.

After considering your comments, the applicant's response, and the inspector's findings, the OOG has determined that the application meets the requirements set forth in the above statute and legislative rule. Consequently, the OOG is issuing the permit today. For your information and convenience, I am including with this letter a copy of the permit as issued.

As you may know, surface owners are entitled to compensation for damages to their property resulting from oil and gas drilling activity. Absent an agreement by the parties, such damage compensation may be addressed pursuant to Article 7, Chapter 22 of the West Virginia Code. Please contact Gene Smith at (304) 926-0499, extension 1652 if you have questions.

Sincerely,


Jeffrey W. McLaughlin
Technical Analyst
WV DEP Office of Oil & Gas

Enclosure
cc: Jeremy James

9901957 P



RECEIVED
Office of Oil and Gas

JUL 28 2015

WV Department of
Environmental Protection

July 23, 2015

Melanie Hankins
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Dear Ms. Hankins:

Chesapeake Appalachia is in receipt of Mr. Woodrow Queen's letter regarding our application to plug the well on his property (API #099-01957).

We have searched our records and cannot confirm whether damages were paid to the surface owner at the time of drilling in 1998. Members of our Land group have been in contact with Mr. Queen to discuss the issue.

Chesapeake would like to commence to plug the well as soon as possible. Once the well is plugged, Chesapeake will reclaim the site to avoid any future impacts to Mr. Queen's property.

Should you have questions or need additional information, please call me at 304-353-5240 or send an email to Jessica.greathouse@chk.com.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Greathouse", written over a horizontal line.

Jessica H. Greathouse
Manager, Regulatory Operations

To: gene.c.smith@wv.gov
Subject: Rev wayne 01957

Reason why I object to this matter is I just got the letter today 6/15/15 @3:45 pm because I have been out of town on vacation and I object to this because the first time they came and drilled the well they never paid for any damages and I don't expect them to pay this time. I want to be paid for damages from first time they dug well and thus time. I want to hear back from you very soon on this matter

Woodrow Queen
937-787-3236



Received
Office of Oil & Gas
JUN 22 2015

CK# 5266670
100.00

FORM WW-4 (B)
Observe
File Copy
(Rev. 2/01)

1) Date: 2/28/2015
2) Operator's Well No. 823443 P&A
3) API Well No. 47-099-01957

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
(Is Gas, Production X or Underground storage) Deep Shallow X
- 5) Location: Elevation 1,086' Watershed Queens Fork of Kiah Creek
District Stonewall County Wayne Quadrangle Kiahsville, WV 7.5'
- 6) Well Operator Chesapeake Appalachia, L.L.C. 7) Designated Agent Jessica Greathouse
Address P.O. Box 18496 Address P.O. Box 6070
Oklahoma City, OK 73154-0496 Charleston, WV 25362
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Jeremy James Name Chesapeake Appalachia, L.L.C.
Address P.O. Box 147 Address P.O. Box 18496
Ona, WV 25545 Oklahoma City, OK 73154-0496

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

See Attached Sheet

RECEIVED
Office of Oil and Gas

JUN 04 2015

WV Department of
Environmental Protection

OK BY TEXT FROM JEREMY JAMES 07/09/15
gwm

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

Work Order approved by Inspector _____ Date _____

823443 P&A PROCEDURE

- 1) Prepare road and location, MIRU service rig
- 2) Run in hole with tools to check TD (approximately 3575')
- 3) Either
 - A)
 - a) Set CIBP approximately at 3200'
 - b) TIH with W.S. to CIBP, spot gel
 - c) Spot 100' cement plug on CIBP at approximately 3200'-3100', pull W.S. to 2500'
 - d) Proceed to step 4
 - or
 - B)
 - a) Run W.S. to 3500', spot gel, pull W.S. to 3200'
 - b) Spot 150' cement plug 3200'-3050', pull W.S. to 2500'
 - c) Proceed to step 4
- 4) Spot 100' cement plug 2500'-2400', pull W.S. to 1950'
- 5) Spot 100' cement plug 1950'-1850', pull W.S.
- 6) Cut 4 ½" at free-point (approximately 1630') and pull
- 7) Run W.S. to 1680', spot gel
- 8) Spot 150' cement plug 1680'-1530', pull W.S.
- 9) Run in hole with tools to check top of plug. If TOC is below 1580' then reset plug.
- 10) Run W.S. to 780', spot gel
- 11) Spot 150' cement plug 780'-630', pull W.S. to 460'
- 12) Spot 100' cement plug 460'-360', pull W.S. to 130'
- 13) Spot 130' cement plug 130'-surface
- 14) Pull W.S. and top off with cement
- 15) Erect monument and reclaim as prescribed by law

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Office of Oil and Gas

JUN 04 2015

WV Department of
Environmental Protection

9901957A

FORM WW-2B

13

Page ___ of ___

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: COLUMBIA NATURAL RESOURCES, INC. #10460 (5)421
- 2) Operator's Well Number: 823443 3) Elevation: 955'
- 4) Well type: (a) Oil / or Gas X/ 47-099-01957
(b) If Gas: Production X/ Underground Storage /
Deep / Shallow X/
- 5) Proposed Target Formation(s): DEVONIAN SHALE
- 6) Proposed Total Depth: 3,538 Feet
- 7) Approximate fresh water strata depths: NA
- 8) Approximate salt water depths: 788 Feet
- 9) Approximate coal seam depths:
- 10) Does land contain coal seams tributary to active mine? Yes X/ No /
- 11) Proposed Well Work: TO DRILL AND STIMULATE NEW WELL
- 12)

25767

RECEIVED
Division of Oil and Gas
Permitting
JUL 29 1998
West Virginia
Department of Energy

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	SIZE	GRADE	WEIGHT PER FT.	FOR DRILLING	LEFT IN WELL	FILL-UP (CU.FT.)
Conductor	13 3/8	L.S.	48#	AS NEEDED		3805/18/1.3
Fresh Water	9 5/8	L.S.	32.3#	250	250	80 cts
Coal						3805/18/1.2.2
Intermediate	7	L.S.	20#	1578	1578	240
Production	4 1/2	M	9.5#		3538	125
Tubing	2 3/8	J	4.6#		3538	3805/18/1.1
Liners						

PACKERS: Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

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

WR-35

06-Oct-98

API # 47- 99-01957 P

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

Well Operator's Report of Well Work

Farm name: BENNETT, PHYLLIS

Operator Well No.: 823443

LOCATION: Elevation: 955.00 Quadrangle: KIAHSVILLE

District: STONEWALL County: WAYNE
Latitude: 3700 Feet South of 38 Deg. 2 Min. 30 Sec.
Longitude 3300 Feet West of 82 Deg. 15 Min. 0 Sec.

Company: COLUMBIA NATURAL RESOURCE
P. O. BOX 6070
CHARLESTON, WV 25362-0000

Agent: W. A. WATSON, JR.

Inspector: DAVE BELCHER
Permit Issued: 10/06/98
Well work Commenced: 10/19/98
Well work Completed: 12/10/98
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 3691
Fresh water depths (ft) 30

Salt water depths (ft) _____

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8	264	264	136
7	1698	1698	343
4 1/2		3647	264

RECEIVED
Office of Oil and Gas
JAN 25 1999

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 3156-3568
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 418 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 234 psig (surface pressure) after 144 Hours

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

Office of Oil and Gas

For: COLUMBIA NATURAL RESOURCES, INC.

By: [Signature]
Date: 11/21/98

WV Department of Environmental Protection

JUN 04 2015

WAY 1957

WELL # 823443

PERFORATIONS:

Stage 1, Perforations: 55 holes from 3156 to 3568

Stage 2, Perforations: holes from to

Stage 3, Perforations: holes from to

Stage 4, Perforations: holes from to

FRACTURING:

1ST STAGE: Devonian Shale

Perforations from 3156 - 3568, Acid gal. HCL,
Breakdown @ 1890 PSI, Avg. Rate 53,780 BPM, SCFM
ATP 2428 PSI, Total H₂O Bbl., Total sand #
Total N₂ 1,730,680 Scf. I.S.I.P. 2163 PSI 15 min. 662 psi

2ND STAGE:

Perforations from - , Acid gal. HCL,
Breakdown @ PSI, Avg. Rate BPM,
ATP PSI, Total H₂O Bbl., Total sand #
Total N₂ Scf. I.S.I.P. 15 min.

3RD STAGE:

Perforations from - , Acid gal. HCL,
Breakdown @ PSI, Avg. Rate BPM,
ATP PSI, Total H₂O Bbl., Total sand #
Total N₂ Scf. I.S.I.P. 15 min.

4TH STAGE:

Perforations from - , Acid gal. HCL,
Breakdown @ PSI, Avg. Rate BPM,
ATP PSI, Total H₂O Bbl., Total sand #
Total N₂ Scf. I.S.I.P. 15 min.

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Office of Oil & Gas
Permitting

JAN 25 1999

WV Division of
Environmental Protection

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Office of Oil and Gas

JUN 04 2015

WV Department of
Environmental Protection

9901957P
REVISED

14-A
Revised
1

1) Date: Revised 6/29/15
2) Operator's Well No. 823443 P&A
3) API Well No. 47-099-01957

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

Surface Owner(s) to be served:
(a) Name Freelin Browning
Address 7938 East Lynn Road
Kiahsville, WV 25534

(b) Name See Attached List for
Address Access Surface Owners

(c) Name _____
Address _____

Inspector Jeremy James
Address P.O. Box 147
Ona, WV 25545

Telephone 304-951-2596

5) Coal Operator
(a) Name Argus Energy WV LLC
Address 9104 Twelvepole Creek Road
Dunlow, WV 25511

Coal Owner(s) with Declaration
(b) Name Norfolk Southern Tower LLC
Address Pocahontas Land Corporation
P.O. Box 1517
Bluefield, WV 24701

Name _____
Address _____

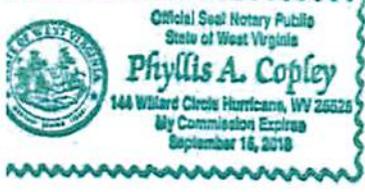
Coal Lessee with Declaration
(c) Name Argus Energy WV LLC
Address 9104 Twelvepole Creek Road
Dunlow, WV 25511

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 locallon 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 the 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 locallon described on the attached Application and depicted on the attached Form WW-6. Copies of the 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: Chesapeake Appalachia, L.L.C.
By: [Signature]
Its: Manager - Operations, Appalachia South
Address: P.O. Box 18496
Oklahoma City, OK 73154-0496
Telephone: 405-935-4073

scribed and sworn before me this 29th day of June the year of 2015
Phyllis A. Copley Notary Public
ommission Expires September 16, 2018
WW-9

Well 823443 P&A
API 47-099-01957

Access Surface Owners

Phyllis Bennett ✓
P.O. Box 86
Mason, WV 25260

Frances C. Queen ✓
8315 Charleston Road
Point Pleasant, WV 25550

Sherron Barnett ✓
365 Whispering Pines Road
Davisville, WV 26142

John W. Queen ✓
P.O. Box 27
Sparr, FL 32192

Wanda Meade Estate ✓
Zola Burwell
7928 Johnny Lane
Panama City, FL 32404

Bernice Moran ✓
Norma L. Koscinski
2330 Hillsdale Drive W
Brookfield, WI 53005

Elsie Jean Gartin ✓
38 Eden Vly
West Hamlin, WV 25571

Nettie Jane Debusk ✓
11536 Clearwater
Fenton, MI 48430

Vivian Napier ✓
414 Farmstead Drive
Toledo, OH 43619

Woodrow Queen ✓
P.O. Box 89
Gratis, OH 45330

Marisa Lee Bridges ✓
119 Glade Drive
Tullahoma, TN 37388

Ben T. Manns ✓
4148 Academy
Dearborne Heights, MI 48125

Heartwood Forestland Fund III LP ✓
1512 E Franklin Street, Suite 104
Chapel Hill, NC 27514

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Office of Oil and Gas

JUN 04 2015

WV Department of
Environmental Protection

COMMENT NOT TIMELY SEE ATTACHE SIGNED RECEIPT.

SURFACE OWNER WAIVER

Operator's Well Number 823443 P&A

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 57th Street
Charleston, WV 25304
(304) 926-0499

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 have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON ETC.

FOR EXECUTION BY A CORPORATION,

Name: _____
By: _____
Its: _____

Signature Date

Signature Date

Received
Office of Oil & Gas
Aug 13 2015

*Dear Sirs
We did not give these people the right to go onto our property & was never paid for the damage done & now you don't need our OK to go back again. I feel we were invaded & I really am in wonder at the gall of these c/s & their ability to bully their way over property owners like we don't exist
Vivian Napier, 414 Farnstead Dr, Jol. Ohio 43119 / 414666 0869*

Dear sir
don't know if you will even open & read this
it's late.

SIGNED RECEIPT

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

823443 P&A
 Vivian Napier
 414 Farmstead Drive
 Toledo, OH 43619

COMPLETE THIS SECTION ON DELIVERY

A. Signature

V. Napier

Agent
 Addressee

B. Received by (Printed Name)

V. Napier

C. Date of Delivery

07/23/13

D. Is delivery address different from item 1? If YES, enter delivery address below:

Yes
 No

3. Service Type

- Certified Mail[®]
- Registered
- Insured Mail
- Priority Mail Express[™]
- Return Receipt for Merchandise
- Collect on Delivery
- Yes

4. Restricted Delivery? (Extra Fee)

7894

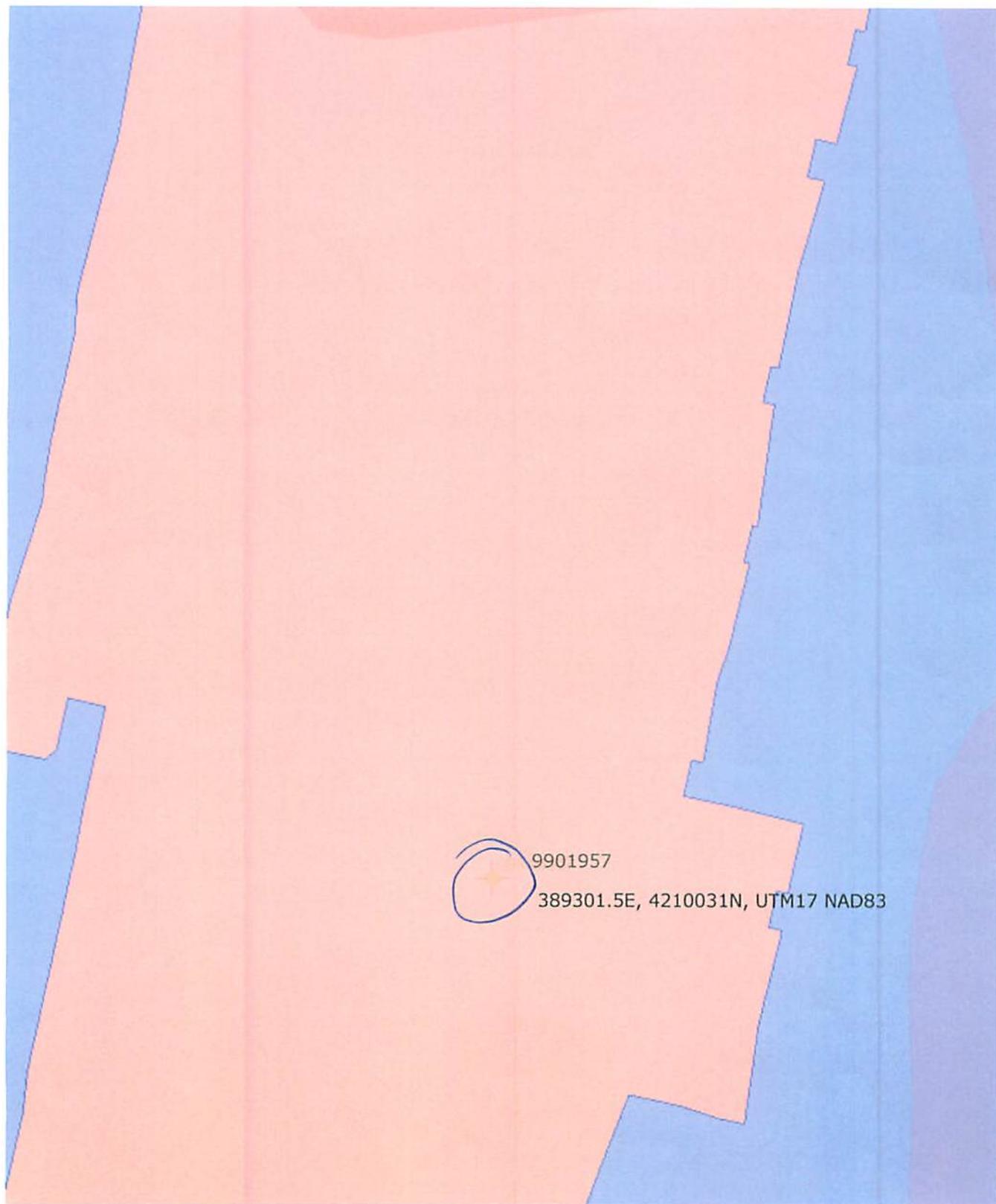
2. Article Number

7024 3490 0000 3913 7894

(Transfer from service in PS Form 3811, July 2013)

Domestic Rate

99 01957





June 29, 2015

WV Division of Environmental Protection
Office of Oil & Gas
601 57th Street, East
Charleston, WV 25304

RE: Revised Application for Well 823443 – API: 47-099-01957

Dear Mr. Martin:

Chesapeake Energy submitted an application for a plugging permit for well 823443 on 6/3/2015. This well is located in the Stonewall District of Wayne County, West Virginia. Since the application was submitted, it has come to my attention that the wrong surface owner was listed on the application. Elmer and Esta Tomblin were listed as the surface owners, when Freelin Browning should have been listed. The application has been revised and new notices sent to all coal owners/operators and surface owners. A copy of the revised application has also been sent to the inspector, Jeremy James.

If you need any additional information, please contact me at our Hamlin, West Virginia office at 304-824-5141 ext. 82602.

Sincerely,

A handwritten signature in blue ink that reads "Phyllis Copley".

Phyllis Copley
Sr. Production Assistant

cc: Jeremy James, DEP Inspector

SURFACE OWNER WAIVER

Operator's Well Number 823443 P&A

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Department of Environmental Protection
601 57th Street
Charleston, WV 25304
(304) 926-0499

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- 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 revision of the violation...".

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I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON ETC.

Signature Date

FOR EXECUTION BY A CORPORATION
HEARTWOOD FORESTLAND FUND III, L.P.

Name: _____
 By: Heartwood Forestland Advisors III, LLC,
 its general partner
 Its: The Forestland Group, LLC, its Manager

 Signature Date 6-17-16

Received
Office of Oil & Gas
JUL 06 2015

9901957P

Rev. 02/01

API Number 47-099-01957
Operator's Well No. 823443 P&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 Chesapeake Appalachia, L.L.C. OP Code 494477557
Watershed Queens Fork of Kiah Creek Quadrangle Kiahsville, WV 7.5'
Elevation 1,086' County Wayne District Stonewall

Description of anticipated Pit Waste: Plugging Returns/Cement

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
 Swabbing
 Plugging
 Other (Explain _____)

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on December 31, 1999, 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.

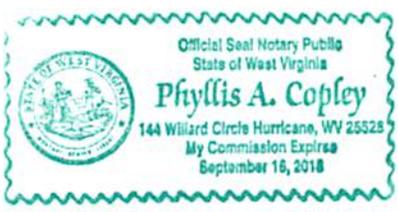
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 *David Gocke*
Company Official (Typed Name) David Gocke
Company Official Title Manager - Operations, Appalachia South

Subscribed and sworn before me this 28th day of May, 2015.

Phyllis A. Copley Notary Public.

My Commission Expires September 16, 2018

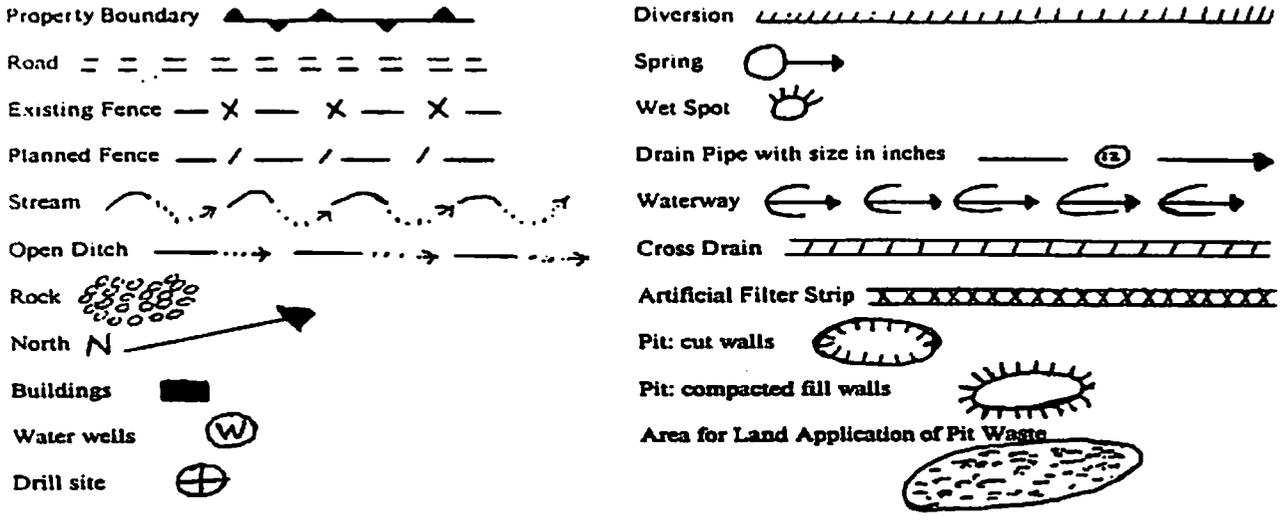


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Environmental Protection

Attachment #1

API #: 47-099-01957
 Operator's Well No. 823443 P&A

LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH 6.1

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)

Mulch Hay 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
CHESAPEAKE CONTRACTOR'S MIX	40	ORCHARD GRASS	15
ALSIKE CLOVER	5	ALSIKE CLOVER	5
ANNUAL RYE	15		

Attach:
 Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Title: _____

Date: _____

Field Reviewed? () Yes () No

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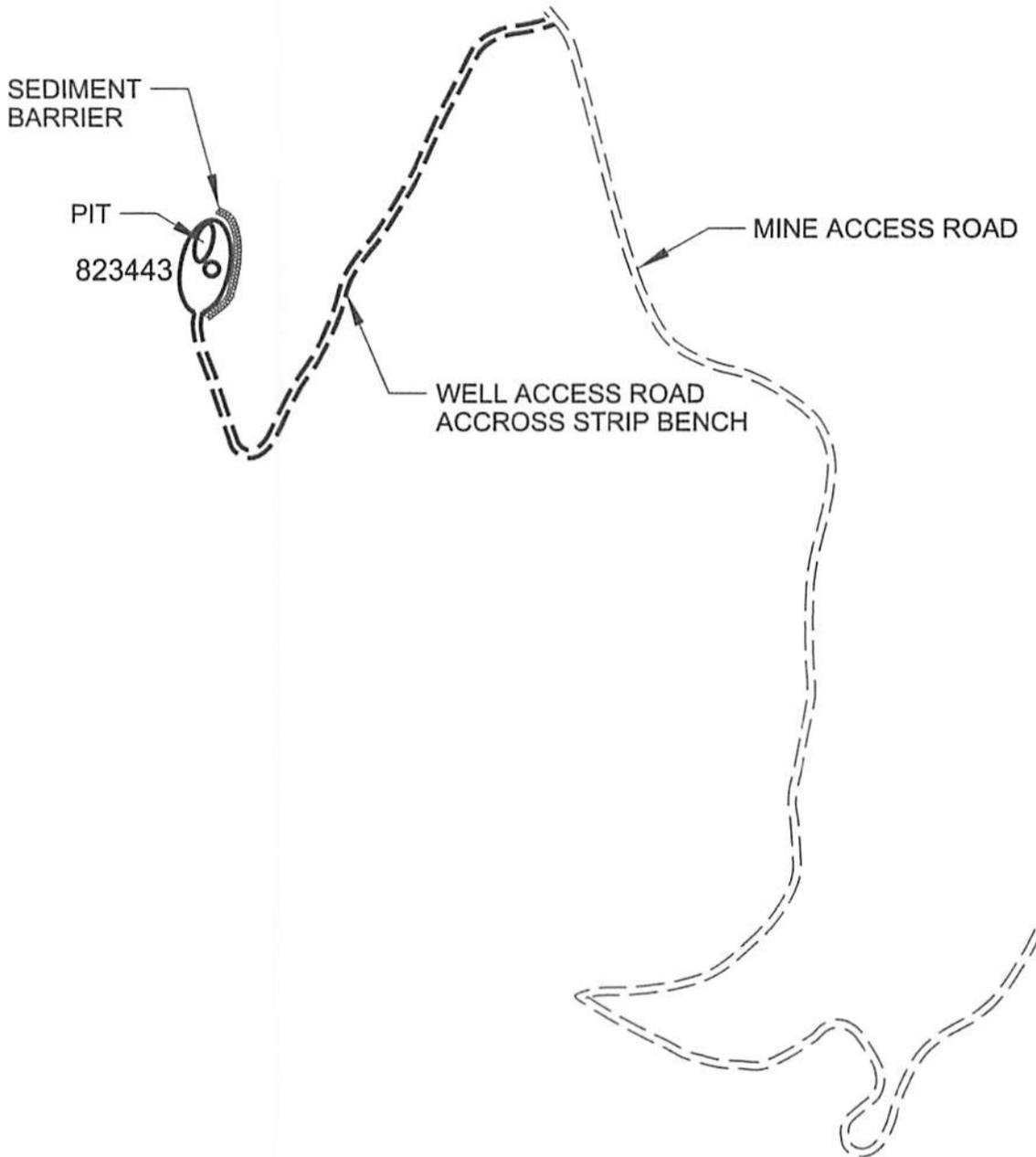
9901957P

CHESAPEAKE APPALACHIA, L.L.C.

RECLAMATION DIAGRAM

WELL LOCATION 823433

API 47-099-01957



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GENERAL NOTES

This drawing is a schematic representation of the well site and access road. Proposed structures such as well site, drilling pit, roadways, culverts, sediment barriers, etc. are shown in approximate pre-planning configurations.

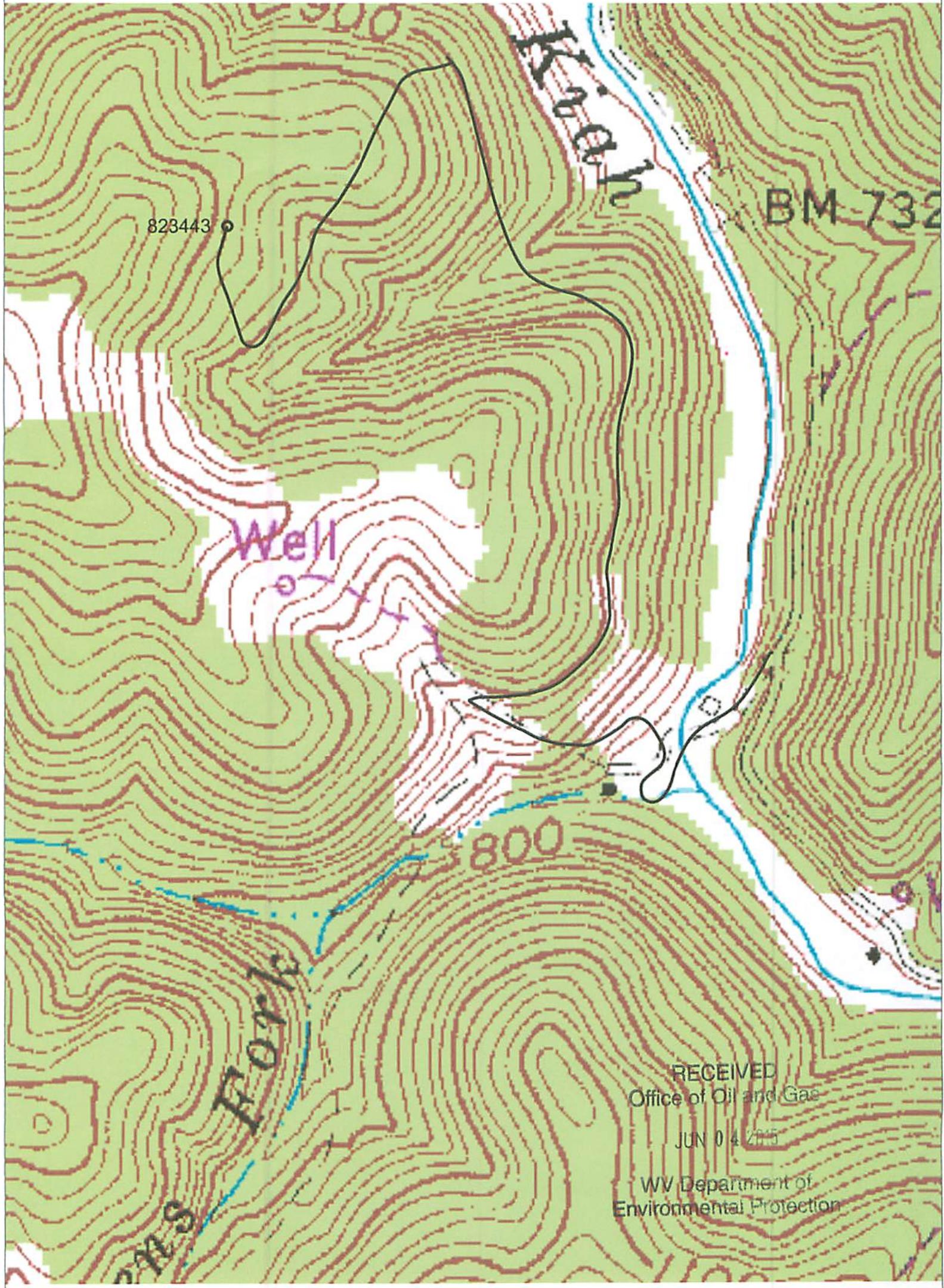
All culvert pipes will be a minimum of 15 inches in diameter. All culvert pipes installed will be accompanied by an entrance sump with dimensions no less than 3 feet (width) x 3 feet (length) x 4 feet (deep). Culverts will be installed at an angle to ensure proper flow. The outfall of culverts will be protected from erosion and sedimentation using large rocks or other sediment controls deemed necessary in the prevention of erosion and sedimentation. Storm water from the ditches to the culverts will be directed to stable natural vegetative areas. Where culverts are not practical, operator will have other sediment control in place to minimize erosion sedimentation.

Cross drains, broad based dips, water bars, and diversion ditches, will be employed during the construction phase. These erosion and sediment control structures will be used to control erosion and sedimentation during the construction phase, where applicable, and in areas that will allow. These structures will be considered permanent and used as such.

Permanent seeding: See Attachment #1.

9901957P

CHESAPEAKE APPALACHIA, L.L.C.
TOPOGRAPHICAL MAP OF ACCESS AND
WELL LOCATION 823443
API 47-099-01957



NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

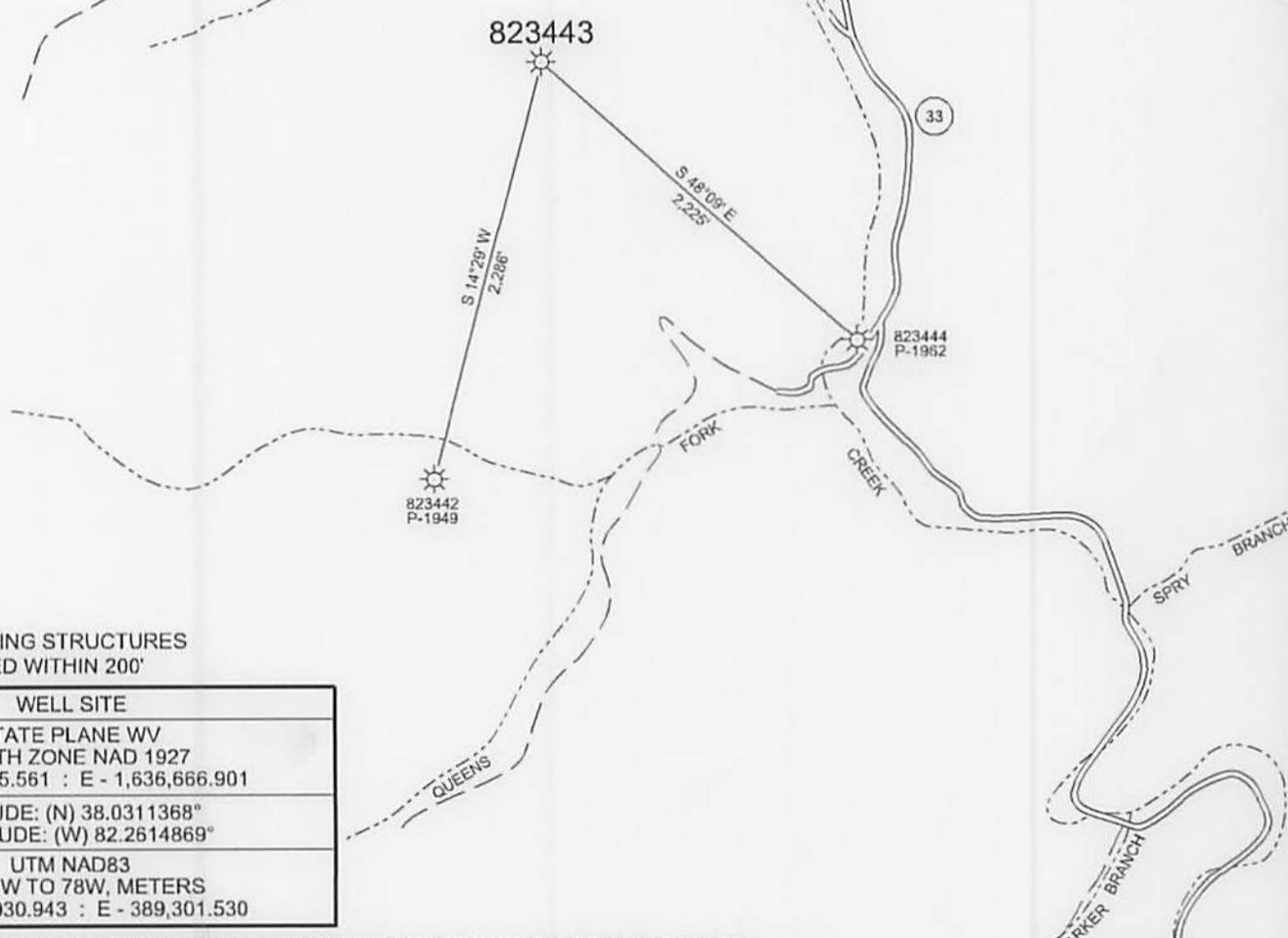
LATITUDE 38°02'30"

3,325'

LONGITUDE 82°15'00"

3,821'

NORTH



NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

WELL SITE	
STATE PLANE WV SOUTH ZONE NAD 1927	
N - 377,935.561 : E - 1,636,666.901	
LATITUDE: (N) 38.0311368°	
LONGITUDE: (W) 82.2614869°	
UTM NAD83	
17 - 84W TO 78W, METERS	
N - 4,210,030.943 : E - 389,301.530	

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO.	823443P&A.DGN
DRAWING NO.	823443P&A
SCALE	1" = 1000'
MINIMUM DEGREE OF ACCURACY	1 : 200
PROVEN SOURCE OF ELEVATION	MAPPING GRADE GPS

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(SIGNED) *Paul E. Miller*
R.P.E. _____ L.L.S. 647



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION



DATE MAY 6, 20 15
OPERATOR'S WELL NO. 823443
API WELL NO. 01957 P
47 099
STATE COUNTY PERMIT
~~01075~~

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1,086' WATER SHED QUEENS FORK OF KIAH CREEK
DISTRICT STONEWALL COUNTY WAYNE
QUADRANGLE KIAHSVILLE, WV 7.5'
SURFACE OWNER ELMER TOMBLIN, ESTA TOMBLIN, AND WATSON TRUSTEES ACREAGE -
OIL & GAS ROYALTY OWNER CHESAPEAKE APPALACHIA, L.L.C. LEASE ACREAGE -
LEASE NO. _____ FEE LAND _____
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW
FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

COUNTY NAME

PERMIT

PLUG AND ABANDON X CLEAN OUT AND REPLUG ___
TARGET FORMATION _____ ESTIMATED DEPTH _____
WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT JESSICA GREATHOUSE
ADDRESS P.O. BOX 18496, OKLAHOMA CITY, OK 73154-0496 ADDRESS CHESAPEAKE APPALACHIA, L.L.C. PO BOX 6070, CHARLESTON, WV 25362

FORM WV-6