



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

March 18, 2014

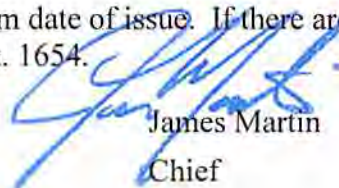
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9901949, 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: 823442
Farm Name: COLUMBIA NATURAL RESOURC
API Well Number: 47-9901949
Permit Type: Plugging
Date Issued: 03/18/2014

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.

9901949P

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

1) Date: 2/13/2014
2) Operator's Well No. 823442 P&A
3) API Well No. 47-099-01949

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 983' Watershed Queens Fork of Kiahns Creek
District Stonewall County Wayne Quadrangle Kiahsville, WV 7.5 421

6) Well Operator Chesapeake Appalachia, L.L.C. 7) Designated Agent Eric B. Gillespie
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
Name Jeremy James
Address P.O. Box 147
Ona, WV 25545

9) Plugging Contractor
Name Chesapeake Appalachia, L.L.C.
Address P.O. Box 18496
Oklahoma City, OK 73154-0496

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

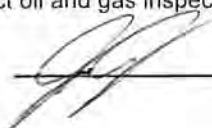
CK# 5122672
\$100.00

See Attached Sheet

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Office of Oil and Gas
FEB 24 2014
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

2-21-14

03/21/2014

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

Well Operator's Report of Well Work

Farm name: COLUMBIA NATURAL RESOURCE Operator Well No.: 823442

LOCATION: Elevation: 977.00 Quadrangle: KIAHSVILLE

District: STONEWALL County: WAYNE
Latitude: 5850 Feet South of 38 Deg. 2 Min. 30 Sec.
Longitude 3700 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: 08/12/98
Well work Commenced: 10/01/98
Well work Completed: 11/23/98
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 3550
Fresh water depths (ft) NA

Salt water depths (ft) NA

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	263	263	142
7	1591	1591	360
4 1/2		3537	266

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 3025-3500
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 184 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 315 psig (surface pressure) after 72 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.

FEB 18 2014

For: COLUMBIA NATURAL RESOURCES, INC.

By: _____
Date: 1/21/99

WELL # 823442

PERFORATIONS:

Stage 1, Perforations: 74 holes from 3025 to 3500

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 3025 - 3500, Acid gal. HCL,
Breakdown @ 1488 PSI, Avg. Rate 54,000 BPM, SCFM
ATP 1720 PSI, Total H₂O Bbl., Total sand #
Total N₂ 1,800,000 Scf. I.S.I.P. 1000 psi 15 min. 850 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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Well Completion Data

CNR Well #: 823442
Permit #: 47-99-01949
County: Wayne
District: Stonewall
Prospect: Harts Creek
Field: Harts Creek Central

	Top	Base
Salt Sand	845	1210
Maxon Sand	1340	1590
Little Lime	1590	1600
Greenbrier Limestone	160	1720
McCravy	1720	1825
Big Inlin	1825	1835
Reborel Shale	1835	2380
Berea Sand	2380	2455
Cleveland Shale	2455	2505
Upper Devonian	2505	3205
Lower Huron Shale	3205	3450

	Top	Base
Olentangev Shale	3450	
Rhinestreet Shale		
Fifth Sand		
Elizabeth Sand		
Bradford Sand		
Riley Sand		
Banson Sand		
Onondaga Limestone		
Onskany Sand		
Newburg Sand		
McKenzie Dolomite		
Tuscarora Sand		

Formation @ TD Lower Huron Shale

	Depth	Meq
Show Gas 1	3565	
Show Gas 2		
Show Gas 3		
Show Gas 4		
Show Gas 5		

	Depth
Show Oil 1	1835
Show Oil 2	

	Depth
Show Water	

	TH	IROR	Sw	Perf Interval
Pav 1	Berea/Cleveland			See log...
Pav 2	Lower Huron Sh.			See log...
Pav 3				
Pav 4				
Pav 5				
Pav 6				

Logger TD 3552

Logging Suite GR, LDT, CNL, DI, T, A TD to Intermediate casing point, GR to surface. Memory PL as needed.

Logging Date 10/8/98

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FEB 18 2014

823442 P&A PROCEDURE

- 1) Prepare road and location, MIRU Service Rig
- 2) Set cast iron bridge plug at 3000'
- 3) TIH with W.S. to 3000', load hole with gel
- 4) Spot 100' cement plug 3000'-2900', pull W.S. to 2400'
- 5) Spot 100' cement plug 2400'-2300', pull W.S. to 1835'
- 6) Spot 100' cement plug 1835'-1735', pull W.S. to 1625'
- 7) Spot 100' cement plug 1675'-1525', pull W.S.
- 8) Cut 4 ½" casing at free-point (approximately 1315') and pull
- 9) Run W.S. to 1350', load hole with gel
- 10) Spot 100 cement plug 1350'-1250', pull W.S. to 875'
- 11) Spot 100' cement plug 875'-775', pull W.S. to 650'
- 12) Spot ^{100'}~~70'~~ cement plug 650'-^{550'}~~580'~~, pull W.S. to 350' 100ft Minimum
- 13) Spot 125' cement plug 350'-225', pull W.S. to 125'
- 14) Spot 125' cement plug 125' – surface
- 15) Pull W.S. and top off with cement
- 16) Set monument and reclaim as prescribed by law



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Office of Oil and Gas

FEB 24 2014

WV Department of
Environmental Protection

03/21/2014

9901949P

WW4-A
Revised
2/01

1) Date: 2/13/2014
2) Operator's Well No. 823442 P&A
3) API Well No. 47-099-01949

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

4) Surface Owner(s) to be served:
(a) Name Heartwood Forestland
Address Attention: Craig Kaderavak
19045 Stone Mountain Road
Abingdon, VA 24210

(b) Name _____
Address _____

(c) Name _____
Address _____

6) 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 Twelve Pole Creek Road
Dunlow, WV 25511

Coal Owner(s) with Declaration
(b) Name Pocahontas Land Corp.
Address 800 Princeton Avenue
Bluefield, WV 24701

Name _____
Address _____

Coal Lessee with Declaration
(c) Name New Eagle Mining Corp.
Address P.O. Box 1048
Holden, WV 25625

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 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 location 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

Subscribed and sworn before me this 13th day of February the year of 2014
Phyllis A. Copley Notary Public
My Commission Expires September 16, 2018
Form WW-9

Received

FEB 18 2014

will 823442

API 47-099-01949 P

7012 1640 0000 0167 9758

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HOLDEN WV 25625

Postage	\$ 12.03	0522
Certified Fee	3.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$ 18.03	02/14/2014

Sent To
 Street, Apt. or PO Box
 City, State
 PS Form 3849 Instructions

823442 P&A and 824085 P&A
 New Eagle Mining Corp.
 P.O. Box 1048
 Holden, WV 25625 ✓

7012 1640 0000 0167 9765

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DUNLOW WV 25511

Postage	\$ 12.03	0522
Certified Fee	3.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$ 18.03	02/14/2014

Sent To
 Street, Apt. or PO Box
 City, State
 PS Form 3849 Instructions

823442 P&A and 824085 P&A
 Argus Energy-WV, LLC
 9104 Twelve Pole Creek Road
 Dunlow, WV 25511 ✓

7012 1640 0000 0167 9772

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BLUEFIELD WV 24701

Postage	\$ 12.03	0522
Certified Fee	3.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$ 18.03	02/14/2014

Sent To
 Street, Apt. or PO Box
 City, State
 PS Form 3849 Instructions

823442 P&A and 824085 P&A
 Pocahontas Land Corp.
 800 Princeton Avenue
 Bluefield, WV 24701 ✓

7012 1640 0000 0167 9796

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ABINGDON VA 24210

Postage	\$ 12.03	0522
Certified Fee	3.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$ 18.03	02/14/2014

Sent To
 Street, Apt. or PO Box
 City, State
 PS Form 3849 Instructions

823442 P&A and 824085 P&A
 Heartwood Forestland
 C/O Craig Kaderavak
 19045 Stone Mountain Road
 Abingdon, VA 24210 ✓

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FEB 18 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

03/21/2014

Rev. 02/01

API Number 47-099-01949
Operator's Well No. 823442 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 Kiahns Creek Quadrangle Kiahsville, WV 7.5'
Elevation 983' County Wayne District Stonewall

Description of anticipated Pit Waste: Plugging Returns/Cement

Will a synthetic liner be used in the pit? Yes

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

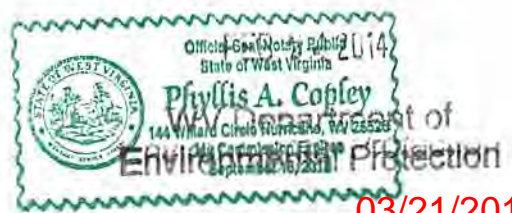
Company Official Title Manager - Operations, Appalachia South

Subscribed and sworn before me this 13th day of February, 2014.

Phyllis A. Copley

Notary **RECEIVED**
Office of Oil and Gas

My Commission Expires September 16, 2018



03/21/2014

Attachment #1

API #: 47-099-01949
 Operator's Well No. 823442 P&A

LEGEND

Property Boundary	Diversion
Road	Spring
Existing Fence	Wet Spot
Planned Fence	Drain Pipe with size in inches
Stream	Waterway
Open Ditch	Cross Drain
Rock	Artificial Filter Strip
North	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	

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
KY-31	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: inspector OOG

Date: ~~2-20-14~~ 2-21-14

Field Reviewed? () Yes () No

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WV Department of
 Environmental Protection
 03/21/2014

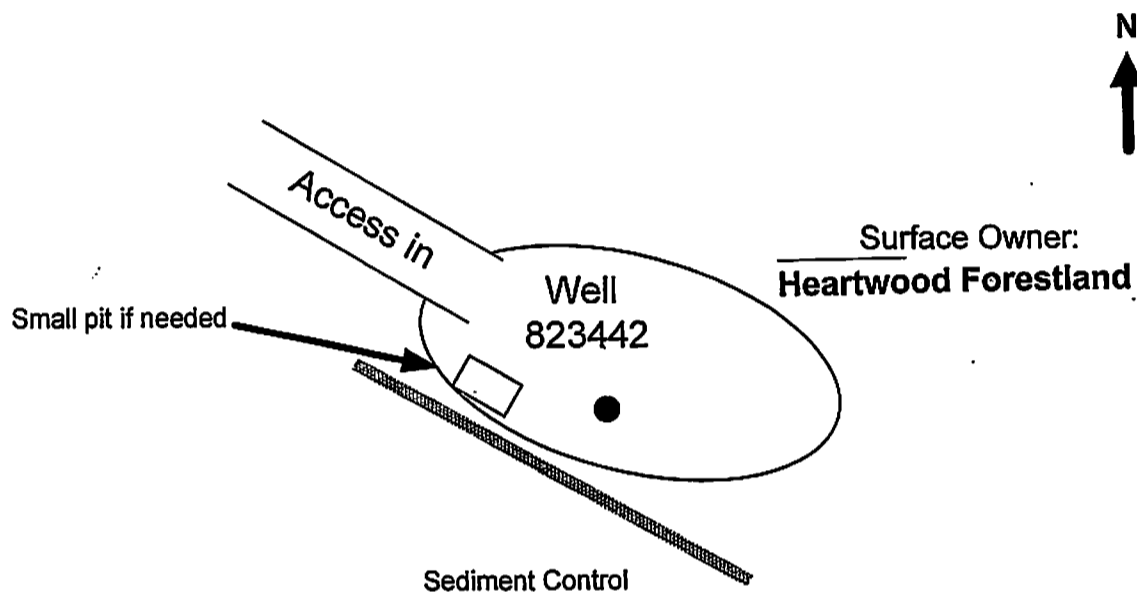
CHESAPEAKE APPALACHIA, L.L.C.

Diagram of Well 823442

API 47-099-1949

Field Office - Branchland

County -Wayne

**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 out fall 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 and 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 areas that will allow. These structures will be considered permanent and used as such.

Permanent seeding: See Attachment #1

Site Plan

Prepared by: Kris Aldridge
Date: 1-23-2014

Received ^{No Scale} 02/20/2014

FEB 18 2014

Chesapeake Energy Corporation - Eastern Division
P.O. Box 579 • 8165 Court Avenue • Hamlin, WV 25523
304.824.5141 • fax 304.824.2247

Office of Oil and Gas
WV Dept. of Environmental Protection

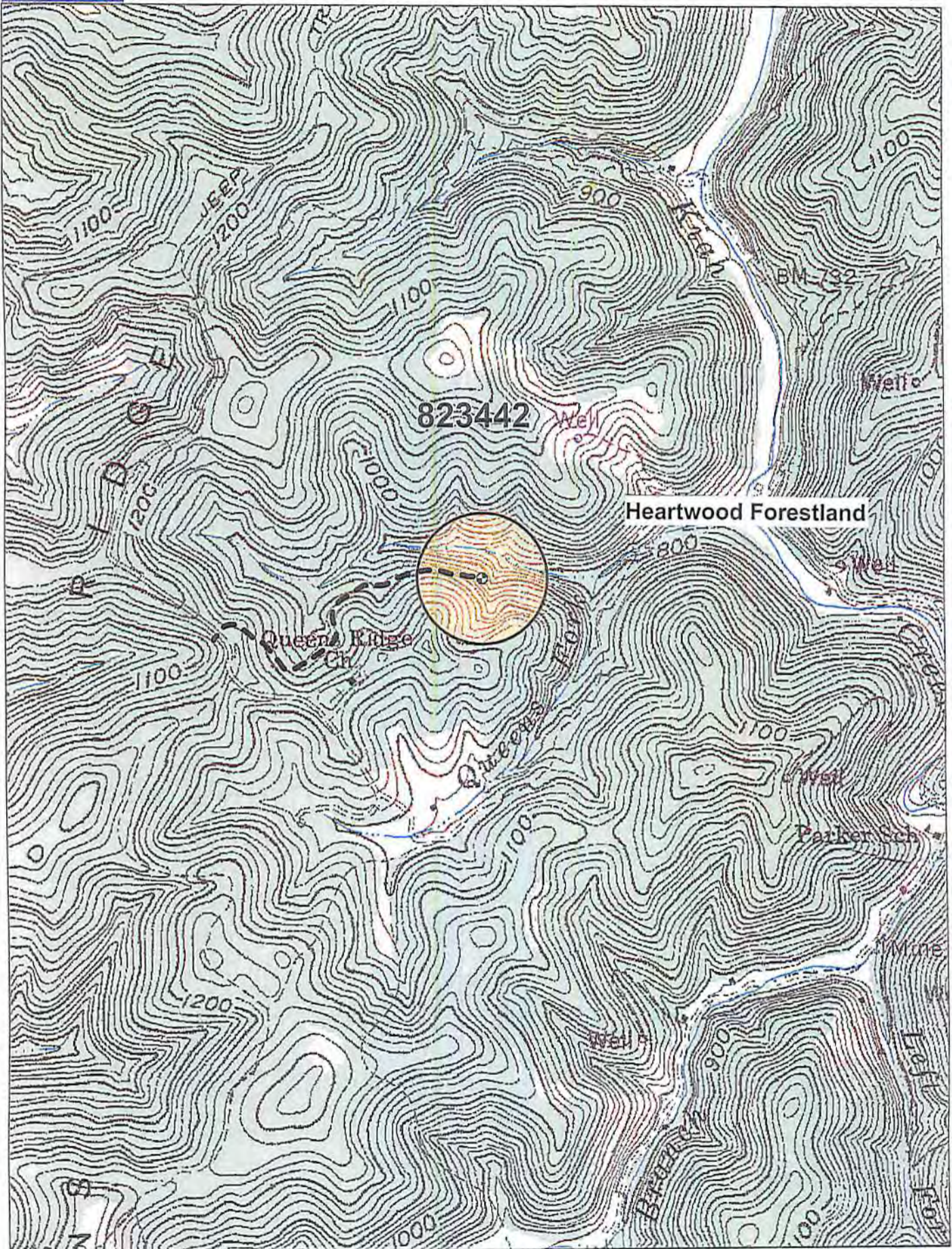
CHESAPEAKE APPALACHIA, L.L.C.

9901949F

Topographical Map of Access and
Well Location 823442
API 47-099-1949
Field Office - Branchland
County - Wayne

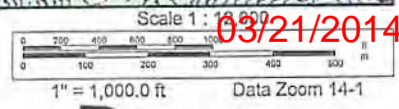
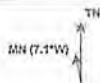
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XMap® 7



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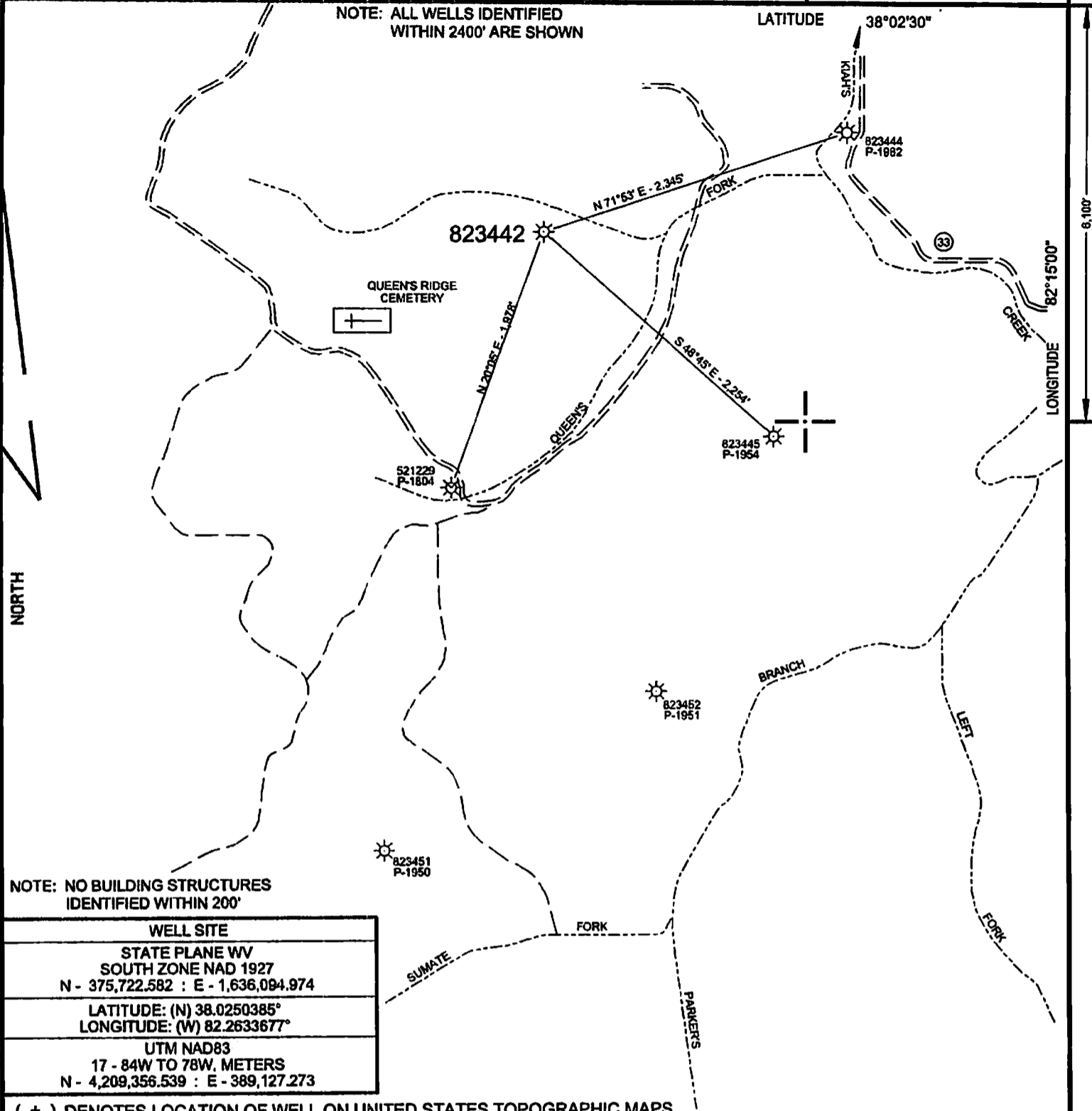
FEB 18 2014

Chesapeake Energy Corporation - Eastern Division
P.O. Box 579 • 8165 Court Avenue • Hamlin, WV 25523
304.824.5141 • fax 304.824.2247

Office of Oil and Gas
WV Dept. of Environmental Protection

NOTE: ALL WELLS IDENTIFIED
WITHIN 2400' ARE SHOWN

LATITUDE 38°02'30"



NOTE: NO BUILDING STRUCTURES
IDENTIFIED WITHIN 200'

WELL SITE
STATE PLANE WV SOUTH ZONE NAD 1927 N - 375,722.582 : E - 1,636,094.974
LATITUDE: (N) 38.0250385° LONGITUDE: (W) 82.2633677°
UTM NAD83 17 - 84W TO 78W, METERS N - 4,209,356.539 : E - 389,127.273

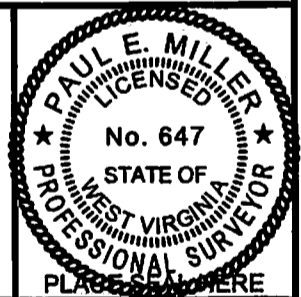
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO.	CA823442P&A.DGN
DRAWING NO.	CA823442P&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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT 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 JANUARY 27, 20 14
OPERATOR'S WELL NO. 823442
API WELL NO.

47 099 1949 P
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 983' WATER SHED QUEENS FORK OF KIAHS CREEK
DISTRICT STONEWALL COUNTY WAYNE
QUADRANGLE KIAHSVILLE, WV 7.5'

SURFACE OWNER ARGUS ENERGY, LLC 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) _____

PLUG AND ABANDON X CLEAN OUT AND REPLUG ___
TARGET FORMATION _____ ESTIMATED DEPTH _____
WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT ERIC B. GILLESPIE
ADDRESS P.O. BOX 18486, OKLAHOMA CITY, OK 73154-0486 ADDRESS CHESAPEAKE APPALACHIA, L.L.C. PO BOX 6070, CHARLESTON, WV 25362

FORM WW-6

COUNTY NAME
PERMIT

03/21/2014