



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

April 15, 2014

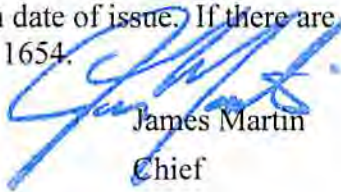
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4302961, 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: 823208
Farm Name: COLEGROVE, ARCH
API Well Number: 47-4302961
Permit Type: Plugging
Date Issued: 04/15/2014

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.

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

1) Date: 4/2/2014
2) Operator's Well No. 823208 P&A
3) API Well No. 47-043-02961

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
(Is Gas, Production or Underground storage) Deep Shallow
- 5) Location: Elevation 1,096' Watershed Plum Branch of Tenmile Creek
District Laurel Hill County Lincoln 43 Quadrangle Ranger, WV 7.5'
05 568
- 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 9) Plugging Contractor
Name Ralph Triplett Name Chesapeake Appalachia, L.L.C.
Address 5539 McClellan Highway Address P.O. Box 18496
Branchland, WV 25506 Oklahoma City, OK 73154-0496

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

See Attached Sheet

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

Work Order approved by Inspector

Ralph D. Triplett

Date

April 9, 2014

04/18/2014

Office
WV Dept. of Environmental Protection

823208 P&A PROCEDURE

- 1) Prepare road and location, MIRU service rig
- 2) Either:
 - A) Set CIBP at 2880', spot 100' cement plug 2880'-2780', load hole with gel
or
 - B) Run W.S. to 3000', load hole with gel, pull W.S. to 2900', spot 100' cement
plug 2900'-~~2000'~~ ^{2800'}
- 3) Pull or run W.S. to 2475', spot 125' cement plug 2475'-2350', pull W.S.
- 4) Cut 4 ½" at free-point (approximately 2060') and pull
- 5) Run W.S. to 2060', load hole with gel
- 6) Spot 100' cement plug 2060'-1960', pull W.S. to 1900'
- 7) Spot 100' cement plug 1900'-1800', pull W.S. to 1715'
- 8) Spot 100' cement plug 1715'-1615', pull W.S. to 1200'
- 9) Spot 100' cement plug 1200'-1100', pull W.S. to 950'
- 10) Spot 100' cement plug 950'-850', pull W.S. to 310
- 11) Spot 130' cement plug 310'-180', pull W.S. to 150'
- 12) Spot 150' cement plug 150' – surface
- 13) Pull W.S. and top off with cement
- 14) Erect monument and reclaim as prescribed by law

RDT

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WV Division of Environmental Protection
JAN 1 1998
Permitting Office of Oil & Gas

03-Jul-97
API # 47- 43-02961

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

Well Operator's Report of Well Work

Farm name: COLEGROVE, ARCH Operator Well No.: 23208

LOCATION: Elevation: 1,099.14 Quadrangle: RANGER

District: LAUREL HILL County: LINCOLN
Latitude: 4350 Feet South of 38 Deg. 7 Min. 30 Sec.
Longitude: 4400 Feet West of 82 Deg. 12 Min. 30 Sec.

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

Agent: W. A. WATSON, JR.

Inspector: DAVE BELCHER
Permit Issued: 07/07/97
Well work Commenced: 8/18/97
Well work Completed: 10/6/97
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 5719
Fresh water depths (ft) 219
Salt water depths (ft) 1180

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8"	354	354	165
7"	1663	1663	352
4 1/2"		3683	183

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

OPEN FLOW DATA

Producing formation DEVONIAN SHALE Pay zone depth (ft) 2895'-3492'
 Gas: Initial open flow --- MCF/d Oil: Initial open flow --- Bbl/d
 Final open flow 103 MCF/d Final open flow --- Bbl/d
 Time of open flow between initial and final tests 72 Hours
 Static rock Pressure 240 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.

For: COLUMBIA NATURAL RESOURCES, INC.

By: W. A. Watson Jr.
Date: 1/6/98

1968 N17

04/18/2014

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Office of Oil and Gas
APR 10 2014
WV Department of Environmental Protection

4704302961 P

Well 823208

API 47-043-02961

WELL # 23208

PERFORATIONS:

Stage 1, Perforations: 45 holes from 2895' to 3492'
 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 2895 - 3492', Acid gal. HCL,
 Breakdown @ 1725 PSI, Avg. Rate 49,250 SCFM
 ATP 1952 PSI, Total H₂O Bbl., Total sand #
 Total N₂ 1,610,300 Scf. I.S.I.P. 1150 psi 15 min. 718 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.

04/18/2014

Office

Enviro

4704302961P

Well 823208

API 47-043-02961

Well Completion Data

CNR Well #: 23208
Permit #:
County: Lincoln
District: Washington
Prospect: Boone Block
Field: Ivey Branch

	Top	Base
Sand/Shale	0	925
Salt Sand	925	1230
Maxon Sand	1230	1620
Little Lino	1620	1655
Greenbrier Limestone	1655	1820
McCready	1820	1885
Big Injun	1885	1895
Pocono Shale	1895	2430
Berea Sand	2430	2495
Upper Devonian	2495	3245
Lower Huron Shale	3245	3545
Olenango Shale		
Rhinestreet Shale		

	Depth	Met
Show Gas 1	2435	
Show Gas 2		
Show Gas 3		
Show Gas 4		
Show Oil 1		
Show Oil 2		
Show Oil 3		
Show Water		

Intermediate Csg	1673
Logper TD	3719
Formation @ TD	Lower Huron

Logging Suite: GR, LDT, CNL, DI, T, A TD to intermediate casing point, GR to surface. Memory PL as needed
Logging Date: 9/5/97

1968 N17

04/18/2014

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WV Department of
Environmental Protection

4302961P.

WW4-A
Revised
2/01

1) Date: 4/2/2014
2) Operator's Well No. 823208 P&A
3) API Well No. 47-043-02961

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 Arch Colegrove ✓
Address C/O Norma Lambert
6217 Division Road
Huntington, WV 25705

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Ralph Triplett
Address 5539 McClellan Highway
Branchland, WV 25506

Telephone 304-389-0350

5) Coal Operator
(a) Name New Eagle Mining Corp. ✓
Address P.O. Box 1048
Holden, WV 25625

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

Name _____
Address _____

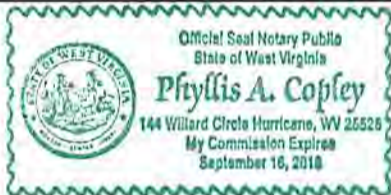
Coal Lessee with Declaration
(c) Name Rockspring Development, Inc. ✓
Address P.O.Box 390
East Lynn, WV 25512

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 3rd day of April the year of 2014
Phyllis A. Copley Notary Public
My Commission Expires September 16, 2018

04/18/2014

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Office of Oil and Gas
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Department of
Environmental Protection

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API 47-043-02961

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100.00

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EAST LYNN WV 25512

Postage	\$ 12.02	0523
Certified Fee	\$ 3.30	01
Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 18.02	04/09/2014

Sent To: **823206 P&A, 823208 P&A**
 Street, Apt. or PO Box: **Rockspring Development, Inc.**
 City, State: **P.O. Box 390**
East Lynn, WV 25512

PS Form 3800

7012 3460 0000 4499 2791

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HOLDEN WV 25625

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Certified Fee	\$ 3.30	01
Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 18.02	04/09/2014

Sent To: **823206 P&A, 823208 P&A**
 Street, Apt. No. or PO Box No.: **New Eagle Mining Corp.**
 City, State, ZIP: **P.O. Box 1048**
Holden, WV 25625

PS Form 3800

7012 3460 0000 4499 2814

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BLUEFIELD WV 24701

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Certified Fee	\$ 3.30	01
Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 18.02	04/09/2014

Sent To: **823206 P&A, 823208 P&A**
 Street, Apt. or PO Box: **Pocahontas Land Corp.**
 City, State: **800 Princeton Avenue**
Bluefield, WV 24701

PS Form 3800

7012 3460 0000 4499 2807

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HUNTINGTON WV 25705

Postage	\$ 11.40	0523
Certified Fee	\$ 3.30	01
Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 17.40	04/09/2014

Sent To: **823208 P&A**
 Street, Apt. or PO Box: **Arch Colegrove**
 City, State: **C/O Norma Lambert**
6217 Division Road
Huntington, WV 25705

PS Form 3800

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Office of Oil and Gas
APR 10 2014
Department of
Environmental Protection

04/18/2014

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 Plum Branch of Tenmile Creek Quadrangle Ranger, WV 7.5'
Elevation 1,096' County Lincoln District Laurel Hill

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*

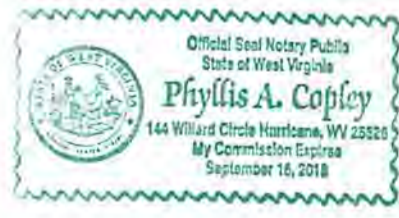
Company Official (Typed Name) David Gocke

Company Official Title Manager - Operations, Appalachia South

Subscribed and sworn before me this 3rd day of April, 2014.

Phyllis A. Copley Notary Public.

My Commission Expires September 16, 2018

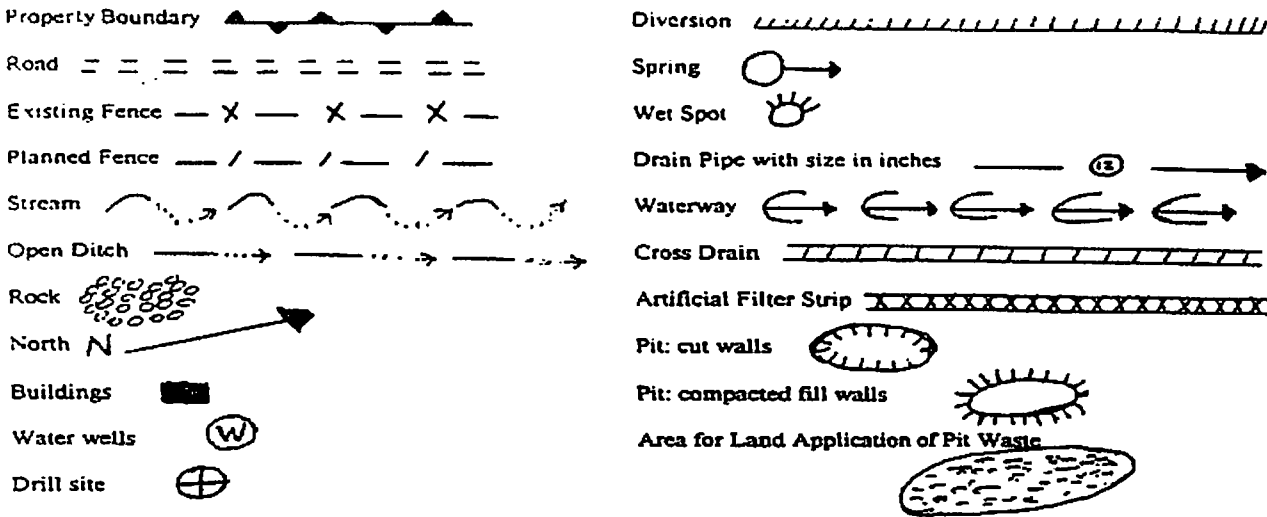


04/18/2014

Attachment #1

API #: 47-043-02961
 Operator's Well No. 823208 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
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: Ralph D. Trippe

Title: District Inspector

Date: April 9, 2014

Field Reviewed? () Yes () No

04/18/2014

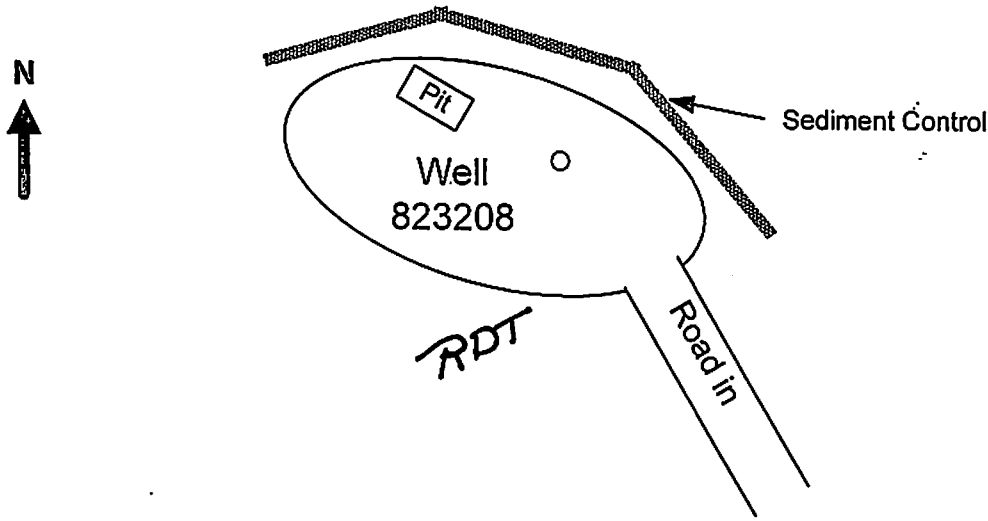
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APR 18 2014

WV Department of
 Environmental Protection

Diagram of Well 823208 Location
API 47-043-02961
Field Office - Branchland
County -Lincoln

Surface Owner:
Arch Colegrove



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: 4/9/2014

No Scale

04/18/2014

Topographic Map of Access and Well

823208 Location

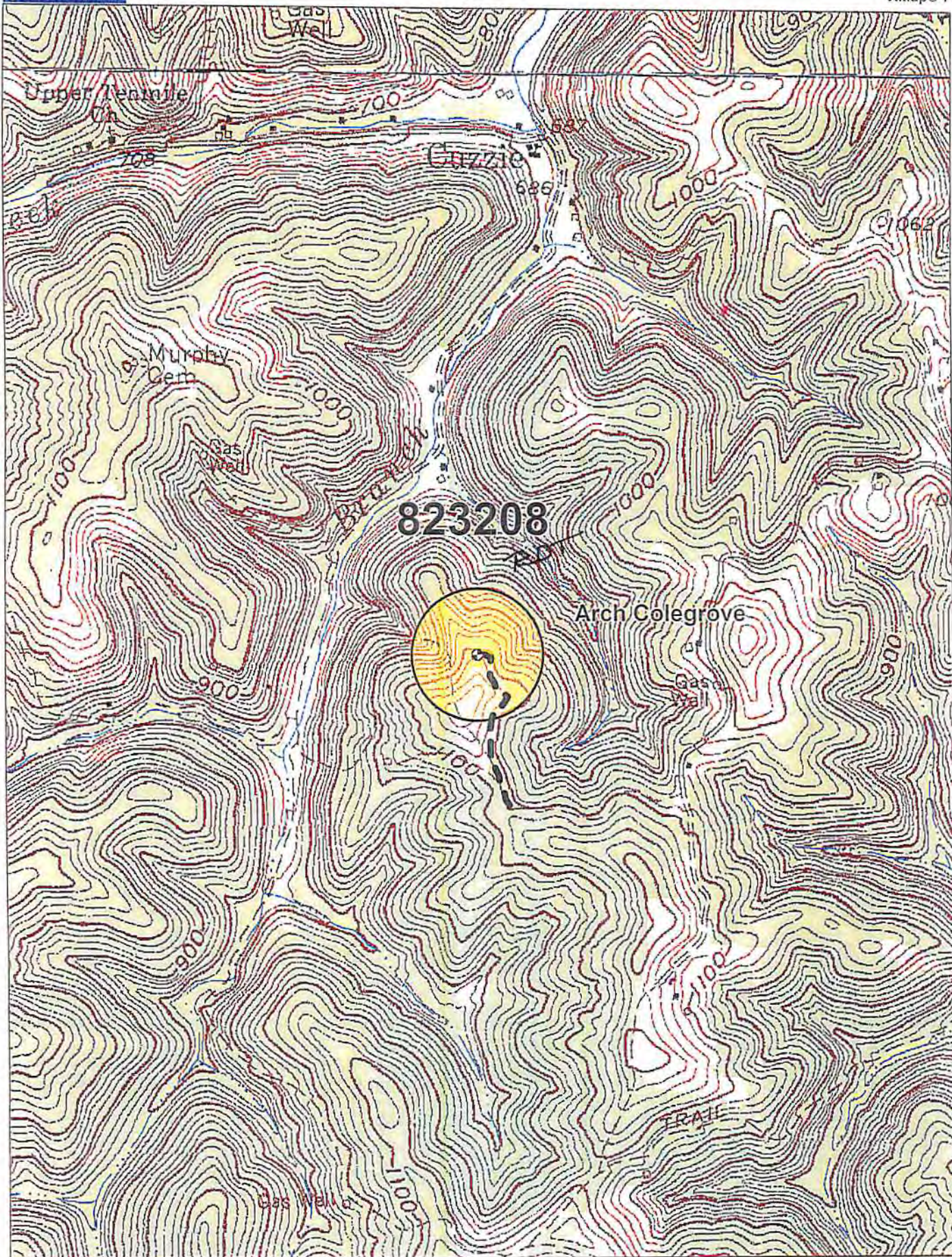
API 47-043-02961

Field Office - Branchland

County - Lincoln



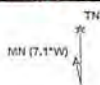
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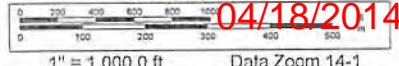
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www.delorme.com



Scale 1 : 12,000



1" = 1,000.0 ft Data Zoom 14-1

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Office of Oil and Gas

APR 10 2014

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

WV Department of
Environmental Protection

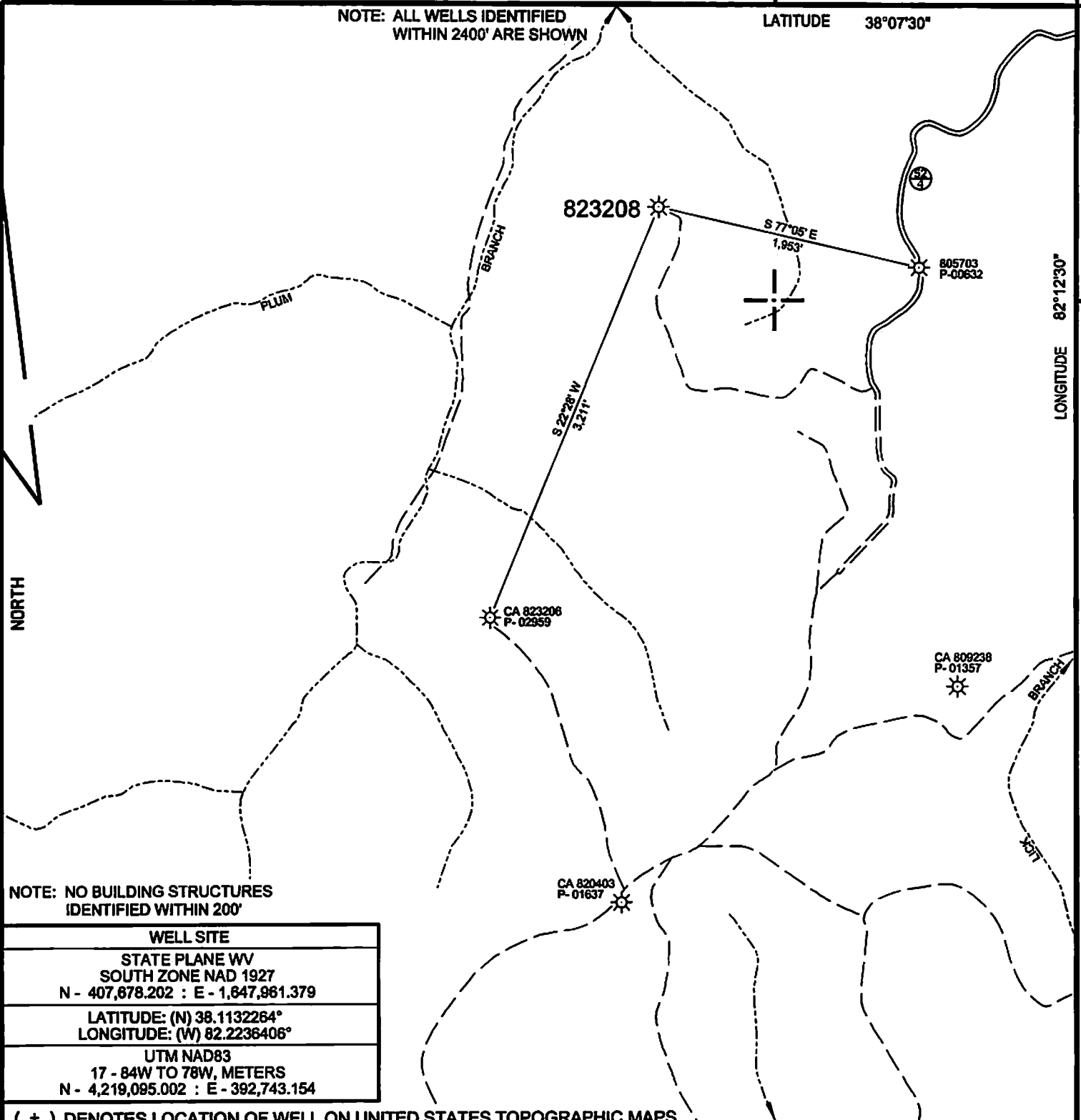
NOTE: ALL WELLS IDENTIFIED
WITHIN 2400' ARE SHOWN

LATITUDE 38°07'30"

4,405'

LONGITUDE 82°12'30"

4,280'



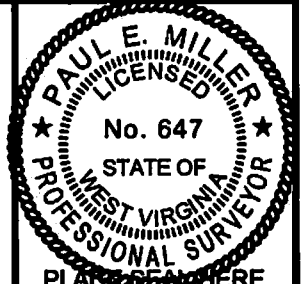
NOTE: NO BUILDING STRUCTURES
IDENTIFIED WITHIN 200'

WELL SITE
STATE PLANE WV SOUTH ZONE NAD 1927 N - 407,878.202 : E - 1,847,981.379
LATITUDE: (N) 38.1132264° LONGITUDE: (W) 82.2236406°
UTM NAD83 17 - 84W TO 78W, METERS N - 4,219,095.002 : E - 392,743.154

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

FILE NO.	CA823208P&A.DGN
DRAWING NO.	823208P&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 APRIL 2, 20 14
OPERATOR'S WELL NO. 823208
API WELL NO.

47 043 02961 P
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1,098' WATER SHED PLUM BRANCH OF TENMILE CREEK
DISTRICT LAUREL HILL COUNTY LINCOLN
QUADRANGLE RANGER, WV 7.5

SURFACE OWNER ARCH COLEGROVE ACREAGE 75
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 18496, OKLAHOMA CITY, OK 73154-0496 ADDRESS CHESAPEAKE APPALACHIA, L.L.C. PO BOX 6070, CHARLESTON, WV 25362

FORM WW-6

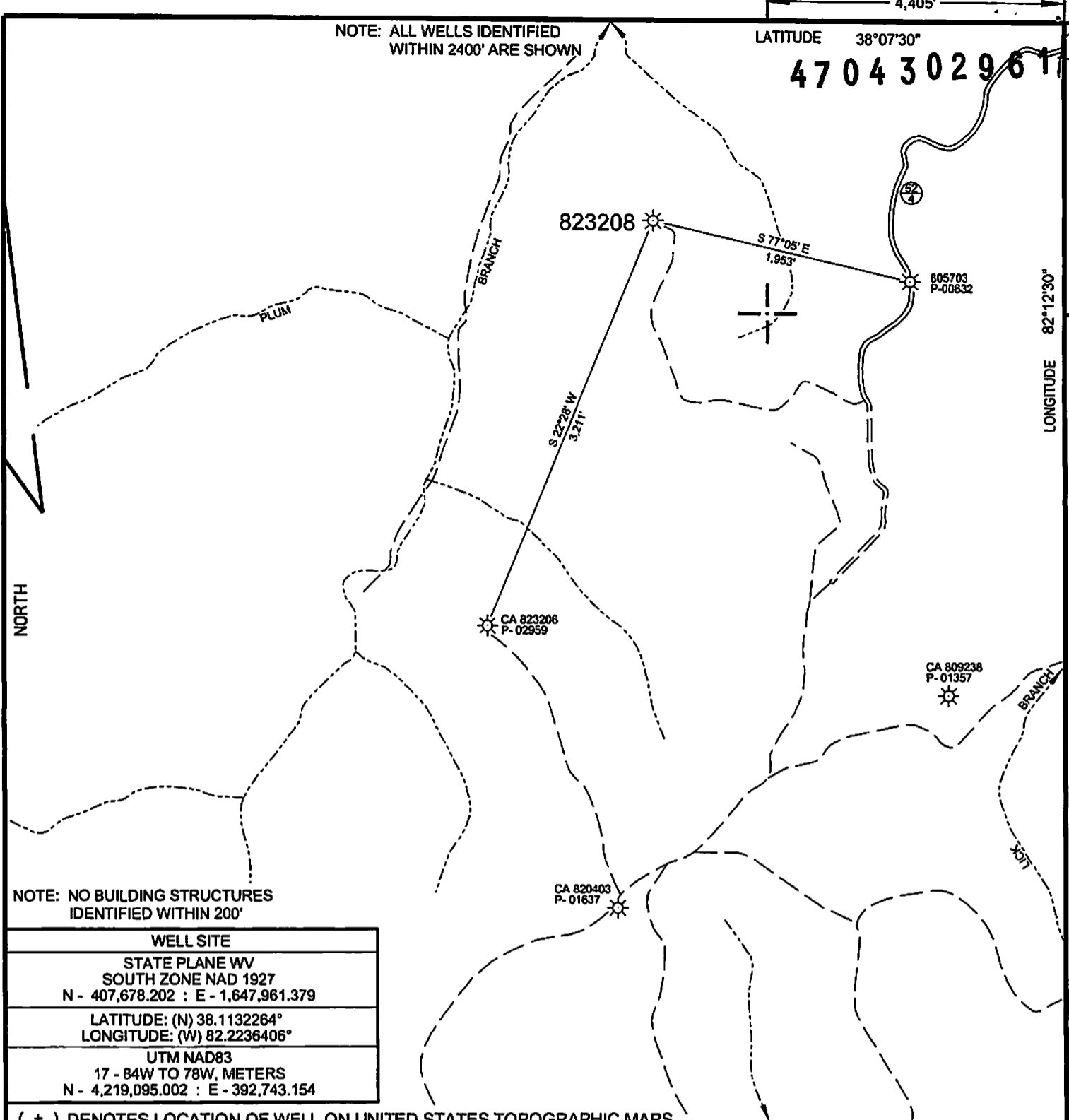
COUNTY NAME PERMIT

04/18/2014

NOTE: ALL WELLS IDENTIFIED
WITHIN 2400' ARE SHOWN

LATITUDE 38°07'30"

4704302961



NOTE: NO BUILDING STRUCTURES
IDENTIFIED WITHIN 200'

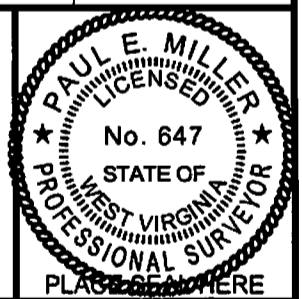
WELL SITE
STATE PLANE WV SOUTH ZONE NAD 1927 N - 407,678.202 : E - 1,647,961.379
LATITUDE: (N) 38.1132264° LONGITUDE: (W) 82.2236406°
UTM NAD83 17 - 84W TO 78W, METERS N - 4,219,095.002 : E - 392,743.154

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

FILE NO. CA823208P&A.DGN
DRAWING NO. 823208P&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 APRIL 2, 20 14
OPERATOR'S WELL NO. 823208
API WELL NO.

47 043 02961
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1,096' WATER SHED PLUM BRANCH OF TENMILE CREEK
DISTRICT LAUREL HILL COUNTY LINCOLN
QUADRANGLE RANGER, WV 7.5'
SURFACE OWNER ARCH COLEGROVE ACREAGE 75
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 18496, OKLAHOMA CITY, OK 73154-0496 ADDRESS CHESAPEAKE APPALACHIA, L.L.C. PO BOX 6070, CHARLESTON, WV 25362

04/18/2014

COUNTY NAME

PERMIT

FORM WW-6