



**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

December 08, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8702170, 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: 1112  
Farm Name: DRENNEN, GEARY  
**API Well Number: 47-8702170**  
**Permit Type: Plugging**  
Date Issued: 12/08/2014

**Promoting a healthy environment.**

**12/12/14**

## 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

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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.
4. This well is under a consent order and must be plugged under the terms of that agreement.





801112 P&A PROCEDURE

- 1) Prepare road and location, MIRU service rig
- 2) Run in hole with tools to check TD at approximately 1980'
- 3) Attempt to pull 3 1/2" and packer PACKER SET AT 1914'
  - A) If successful:
    - a) Run W.S. to 1985', load hole with gel
    - b) Spot 100' cement plug 1985'-1885', pull W.S. COVER GAS SHOW @ 1895'
    - c) Proceed to step #4
  - B) If unsuccessful:
    - a) Run W.S. to 1985', load hole with gel
    - ★ b) Spot 70' cement plug 1985'-1915', pull W.S. MAKE THIS PLUG 100' IF POSSIBLE
    - c) Cut 3 1/2" at free-point (approximately 1885') and pull
    - d) Proceed to step #4
- 4) Attempt to pull 6 5/8" casing (whether successful or not) run W.S. to 1885', load hole with gel, spot 100' cement plug 1885'-1785'.
- 5) If attempt to pull 6 5/8" casing was unsuccessful, then cut casing at free-point (approximately 1400') and pull
- 6) Pull or run W.S. to 1400', load hole with gel
- 7) Spot 150' cement plug 1400'-1250', pull W.S. to 710'
- 8) Spot 100' cement plug 710'-610', pull W.S. to 450'
- 9) Spot 100' cement plug 450'-350', pull W.S. to 150'
- 10) Spot 150' cement plug 150'-surface
- 11) Pull W.S. and top off with cement
- 12) Erect monument and reclaim as prescribed by law

THIS PROCEDURE WAS OK BY EQ GRINER ON 11/16/14.

JMM

8702170P

Form

UNITED FUEL GAS COMPANY  
Incorporated

Serial Well No. 1112 Lease No. 8842 Map Square 80-75

<p>RECORD OF WELL No. <u>1</u> on the <u>Geary-Drennen</u> Farm of <u>50</u> Acres in <u>Geary</u> District <u>Roane</u> County <u>Glendenin</u> Field, State of <u>W. Va.</u></p>		<p>CASING AND TUBING</p> <table border="1"> <tr> <th>Size</th> <th>Used in Drilling</th> <th>Left in Well</th> <th></th> </tr> <tr> <td>16</td> <td></td> <td></td> <td></td> </tr> <tr> <td>13</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8 3/4</td> <td><u>681'</u></td> <td><u>41'7"</u></td> <td></td> </tr> <tr> <td>6 5/8</td> <td><u>1856'</u></td> <td><u>1856'</u></td> <td></td> </tr> <tr> <td>5 3/16</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4 7/8</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td><u>2037</u></td> <td><u>2037'</u></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> </tr> </table>			Size	Used in Drilling	Left in Well		16				13				10				8 3/4	<u>681'</u>	<u>41'7"</u>		6 5/8	<u>1856'</u>	<u>1856'</u>		5 3/16				4 7/8				4				3	<u>2037</u>	<u>2037'</u>		2				<p>TEST BEFORE SHOT</p> <p>_____ of Water in _____ inch 10ths _____ of Merc. in _____ inch 10ths Volume _____ Cu. ft.</p> <p>TEST AFTER SHOT</p> <p>_____ of Water in _____ inch 10ths _____ of Merc. in _____ inch 10ths Volume _____ Cu. ft.</p> <p>Rock pressure <u>290</u></p> <p>Date Shot _____</p> <p>Size of Torpedo _____</p> <p>Oil Flowed _____ bbls. 1st 24 hrs.</p> <p>Oil Pumped _____ bbls. 1st 24 hrs.</p>	
Size	Used in Drilling	Left in Well																																																
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3	<u>2037</u>	<u>2037'</u>																																																
2																																																		
<p>Rig Commenced _____ 192</p> <p>Rig Completed <u>May 2, 1921</u> 192</p> <p>Drilling Commenced <u>May 1, 1921</u> 192</p> <p>Drilling Completed <u>June 15, 1921</u> 192</p> <p>Drilling to cost _____ per foot</p> <p>Contractor is: <u>U.F.G.Co.Drg.Dept.Stg.#4</u></p> <p>Address: <u>Charleston, W. Va.</u></p>		<p>SHUT IN</p> <p>Date <u>June 25, 1921</u></p> <p><u>3</u> in Tubing or <del>Casing</del></p> <p>Size of Packer <u>3x5 3/16x16</u></p> <p>Kind of Packer <u>Anchor</u></p> <p>1st Perf. Set <u>18'7"</u> from <u>bottom</u></p> <p>2nd Perf. Set <u>41'10"</u> from <u>bottom</u></p>			<p>Well abandoned and Plugged _____ 19____</p>																																													
<p>Drillers' Names <u>R.C. Williamson</u> <u>Joe Hickman</u></p>																																																		

DRILLER'S RECORD

Formation	Top	Bottom	Thickness	Remarks
Slate		120	120	
Red Rock	120	290	170	
Slate	290	325	35	
Lime	325	345	20	
Red Rock	345	450	105	
Little Dunkard	450	480	30	
Slate	480	540	60	
Big Dunkard	540	670	130	
Slate & Lime	670	800	130	
Sand	800	875	75	
Slate	875	900	25	
Sand	900	940	40	
Slate & shells	940	1110	170	
Sand	1110	1250	140	
Slate	1250	1320	70	
Lime	1320	1390	70	
Salt Sand	1390	1690	300	6 5/8 Casing- 1845 S.L.
Maxon Sand	1690	1740	50	Hole Reduced- 1895
Lime	1740	1765	25	
Cave	1765	1775	10	
Little lime	1775	1830	55	
Pencil Cave	1830	1835	5	
Big Lime	1835	1959	124	Show gas 1895- no test 12/12/14
Big Injun	1959	1986	27	Gas 1964-1978 4 1/10 Mer. 2" opg.
Slate & Shells	1986	2020	34	
TOTAL DE TH		2020		2020 S.L.



WW4-A  
Revised  
2/01

1) Date: 10/22/2014  
2) Operator's Well No. 801112 P&A  
3) API Well No. 47-087-02170

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 Robert O. Moore, Jr., etux  
Address 493 Andy's Run Road  
Clendenin, WV 25045  
  
(b) Name Justeen Abbott  
Address 1361 Clio Road  
Clendenin, WV 25045  
  
(c) Name Pierson Lumber Co., Inc.  
Address P.O. Box 146  
Clay, WV 25043  
  
6) Inspector Ed Gainer  
Address P.O. Box 821  
Spencer, WV 25276  
  
Telephone 304-389-7582

5) Coal Operator  
(a) Name None  
Address \_\_\_\_\_  
  
Coal Owner(s) with Declaration  
(b) Name See Attached List of Coal Owners  
Address \_\_\_\_\_  
  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
Coal Lessee with Declaration  
(c) Name None  
Address \_\_\_\_\_  
  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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 23rd day of October the year of 2014  
Phyllis A. Copley Notary Public  
My Commission Expires September 16, 2018  
Form WW-9

## COAL OWNERS

**801112 P&A (surface and coal owner)**

Robert O. Moore, Jr. etux  
 ✓ 493 Andy's Run Road  
 Clendenin, WV 25045

**801112 P&A (coal owner)**

✓ Stalnaker Energy Corp  
 P.O. Box 178  
 Glenville, WV 26351

**801112 P&A (coal owner)**

✓ David Morrison  
 701 Ellette Drive  
 Charleston, WV 26311

**801112 P&A (coal owner)**

Judy Hildreth  
 ✓ 961 Egypt Ridge  
 Spencer, WV 25276

**801112 P&A (coal owner)**

✓ David E. Bassi (DNU)  
 41 Yankee Avenue  
 Bangor, Maine 44010

**801112 P&A (coal owner)**

✓ Michael S. Bassi  
 383 Lakeview Avenue  
 Dedham, Maine 44294

**801112 P&A (coal owner)**

✓ James Milton Geary, Jr.  
 P.O. Box 453  
 Clendenin, WV 25045

**801112 P&A (coal owner)**

✓ James Paul Geary  
 P.O. Box 218  
 Petersburg, WV 26847

**801112 P&A (coal owner)**

✓ Judith Lynn Geary  
 133 The Fields  
 Williamstown, WV 26187

**801112 P&A (coal owner)**

✓ Rosa L. Goodrich  
 808 Eastern Avenue  
 Holden, Maine 44290

and

✓ Rosa L. Goodrich  
 Box 3382  
 Brewer, Maine 44120



47-087-02170 P

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Total Postage & Fees	\$ 47.40	10/23/2014

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801112 P&A (coal owner)  
 Judith Lynn Geary  
 133 The Fields  
 Williamstown, WV 26187

Sent To  
 Street, Apt. No., or PO Box No.  
 City, State, ZIP

PS Form 3800

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 Stalnaker Energy Corp  
 P.O. Box 178  
 Glenville, WV 26351

Sent To  
 Street, Apt. No., or PO Box No.  
 City, State, ZIP

PS Form 3800

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 James Paul Geary  
 P.O. Box 218  
 Petersburg, WV 26847

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WV Department of Environmental Protection

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801112 P&A (coal owner)  
 Rosa L. Goodrich  
 808 Eastern Avenue  
 Holden, Maine 44290

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 City, State, ZIP

PS Form 3800

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801112 P&A (coal owner)  
 Rosa L. Goodrich  
 Box 3382  
 Brewer, Maine 44120

Sent To  
 Street, Apt. No., or PO Box No.  
 City, State, ZIP

PS Form 3800

4352 2340 0000 4644 3354

Rosa Goodrich

This is the same person with two addresses so I noticed at both since I wasn't sure how to best reach her.

12/12/14



47-087-02170 P

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Sent To: **801112 P&A (surface and coal owner)**  
 Robert O. Moore, Jr. etux  
 493 Andy's Run Road  
 Clendenin, WV 25045

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Sent To: **801112 P&A (coal owner)**  
 David Morrison  
 701 Ellette Drive  
 Charleston, WV 25311

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Sent To: **801112 P&A (surface access)**  
 Pierson Lumber Co., Inc.  
 P.O. Box 146  
 Clay, WV 25043

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Sent To: **801112 P&A (surface access)**  
 Justeen Abbott  
 1361 Clio Road  
 Clendenin, WV 25045

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Sent To: **801112 P&A (coal owner)**  
 Judy Hildreth  
 961 Egypt Ridge  
 Spencer, WV 25276

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Sent To: **801112 P&A (coal owner)**  
 David E. Bassi (DNU)  
 41 Yankee Avenue  
 Bangor, Maine 44010

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Sent To: **801112 P&A (coal owner)**  
 Michael S. Bassi  
 383 Lakeview Avenue  
 Dedham, Maine 44294

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Sent To: **801112 P&A (coal owner)**  
 James Milton Geary, Jr.  
 P.O. Box 453  
 Clendenin, WV 25045

Office of Oil and Gas  
 OCT 24 2014  
 WV Department of Environmental Protection



8701270A

Rev. 02/01

API Number 47-087-02170  
Operator's Well No. 801112 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 Little Left hand Fork of Big Sandy Creek Quadrangle Clio, WV 7.5'

Elevation 1,058' County Roane District Geary

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 [Signature]  
Company Official (Typed Name) David Gocke  
Company Official Title Manager - Operations, Appalachia South

Subscribed and sworn before me this 23rd day of October, 2014

[Signature]

My Commission Expires September 16, 2018

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Office of Oil and Gas

OCT 24 2014



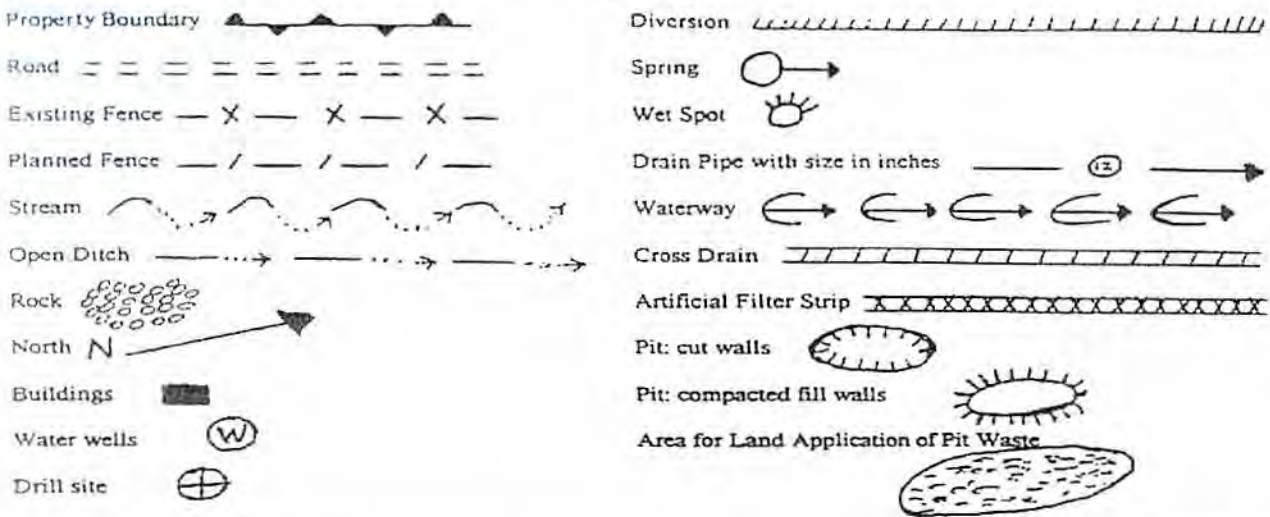
12/12/14



Attachment #1

API #: 47-087-02170  
 Operator's Well No. 801112 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: [Signature]

Title: Inspector

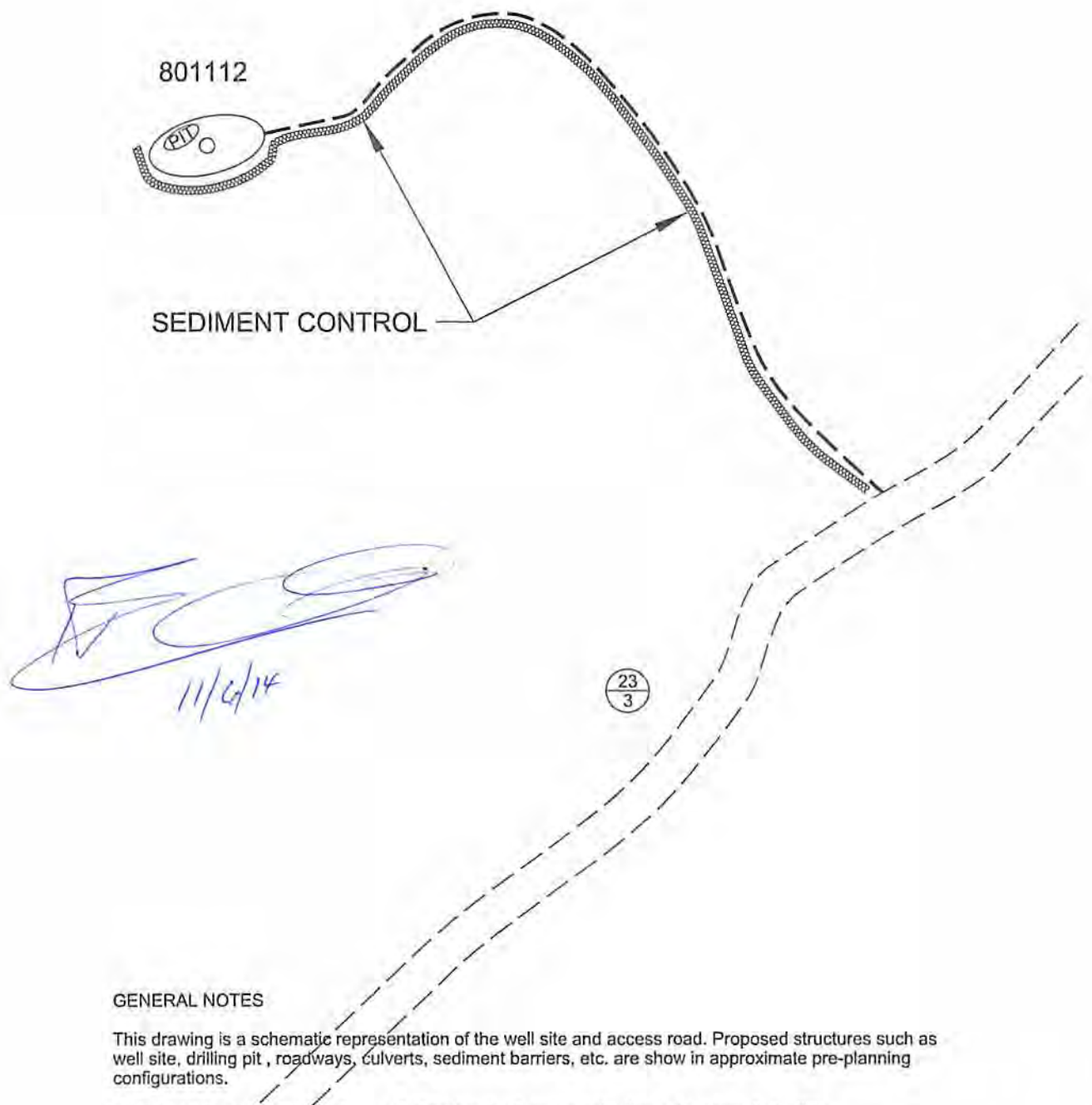
Date: 11/6/14

Field Reviewed? ( ) Yes (X) No

## CHESAPEAKE APPALACHIA, L.L.C.

RECLAMATION DIAGRAM  
WELL LOCATION 801112

API 47-043-02170



## 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 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.

12/12/14





12/12/14

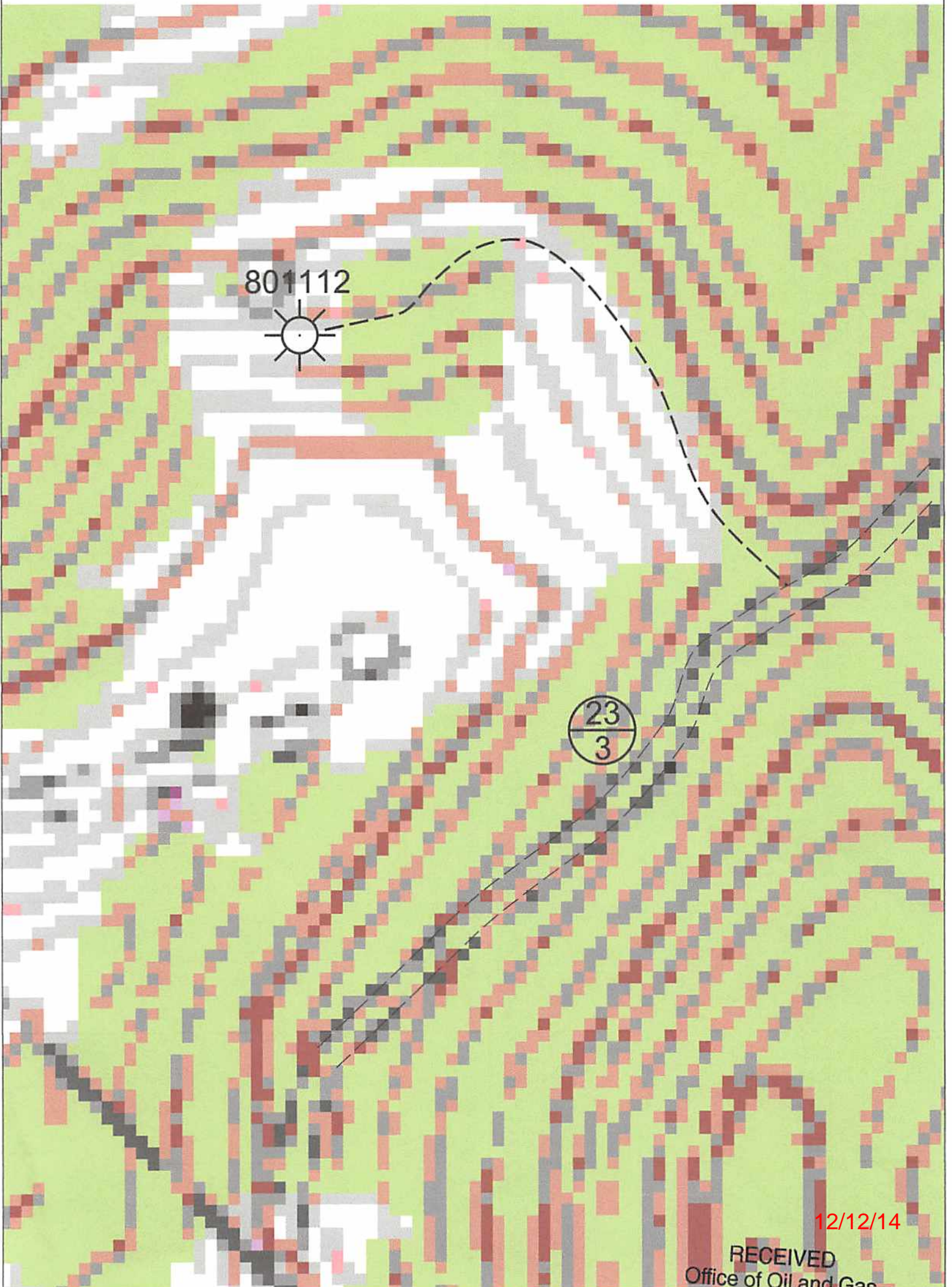


8702170P

# CHESAPEAKE APPALACHIA, L.L.C.

TOPOGRAPHICAL MAP OF ACCESS AND  
WELL LOCATION 801112

API 47-087-02170



12/12/14

RECEIVED  
Office of Oil and Gas

OCT 24 2014

CHESAPEAKE ENERGY CORPORATION - EASTERN DIVISION  
P.O. BOX 579 - 8165 COURT AVENUE - HAMLIN, WV 25523  
304 824-5141 - FAX 304 824-2247

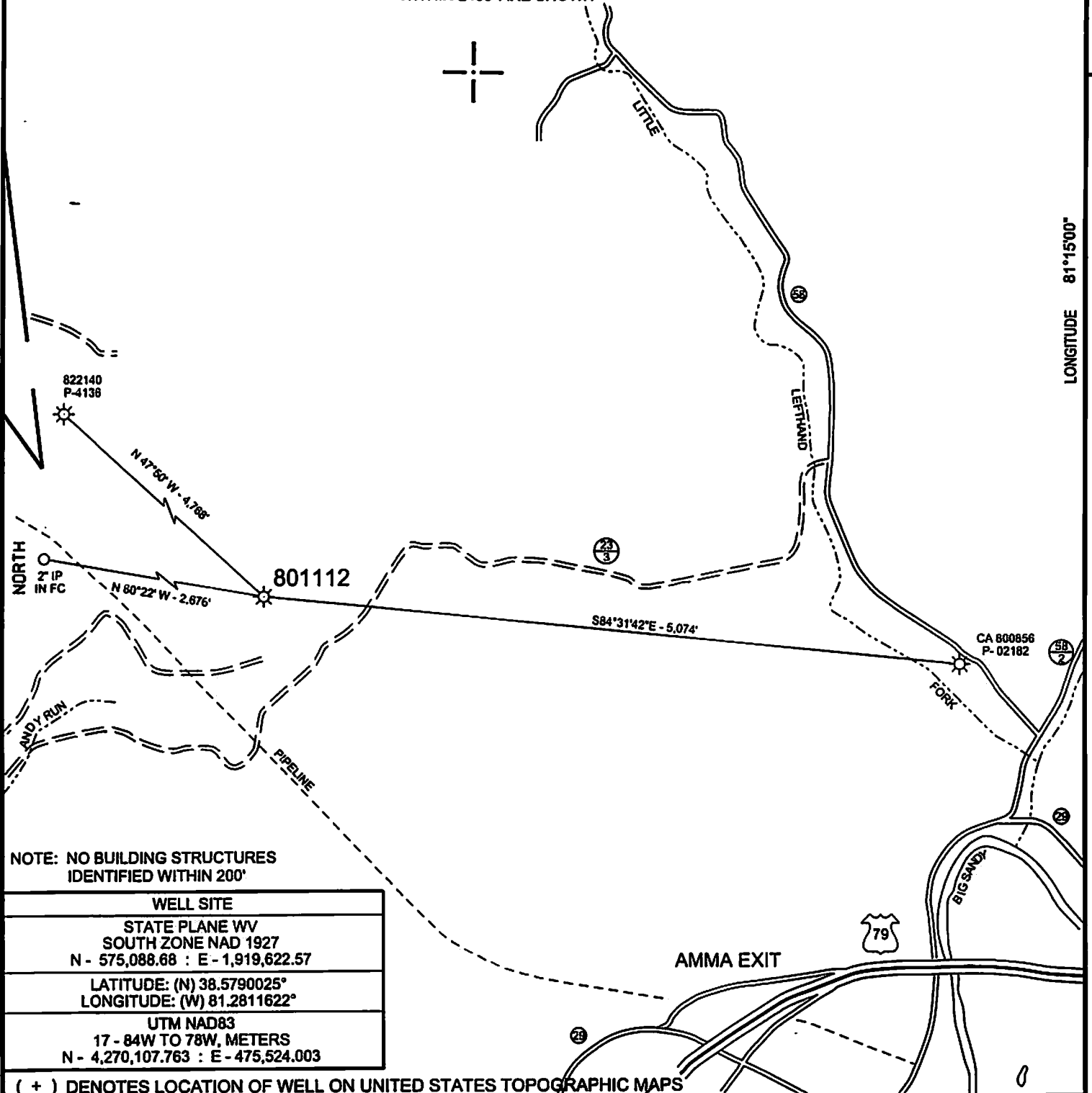
WV Department of  
Environmental Protection



NOTE: ALL WELLS IDENTIFIED  
WITHIN 2400' ARE SHOWN

LATITUDE 38°35'00"

LONGITUDE 81°15'00"



NOTE: NO BUILDING STRUCTURES  
IDENTIFIED WITHIN 200'

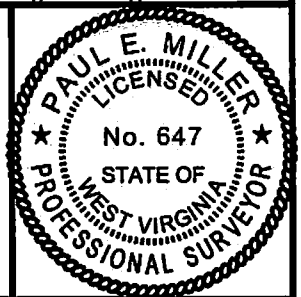
<b>WELL SITE</b>
STATE PLANE WV SOUTH ZONE NAD 1927 N - 575,088.68 : E - 1,919,622.57
LATITUDE: (N) 38.5790025° LONGITUDE: (W) 81.2811622°
UTM NAD83 17 - 84W TO 78W, METERS N - 4,270,107.763 : E - 475,524.003

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

FILE NO.	801112 P&A DGN.
DRAWING NO.	801112 P&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 OCTOBER 8, 20 14  
OPERATOR'S WELL NO. 801112  
API WELL NO. \_\_\_\_\_

47 087 02170 P  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 1058' WATER SHED LITTLE LEFT HAND FORK OF BIG SANDY CREEK

DISTRICT \_\_\_\_\_ GEARY COUNTY \_\_\_\_\_ ROANE

QUADRANGLE CLIO, WV 7.5'

SURFACE OWNER ROBERT O. MOORE JR. et ux ACREAGE \_\_\_\_\_

OIL & GAS ROYALTY OWNER \_\_\_\_\_ LEASE ACREAGE \_\_\_\_\_

LEASE NO. \_\_\_\_\_ 12/12/14

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 JESSICA GREATHOUSE

ADDRESS P.O. BOX 18496, OKLAHOMA CITY, OK 73154-0496 ADDRESS PO BOX 6070, CHARLESTON, WV 25362

FORM WW-6

COUNTY NAME

PERMIT