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**west virginia** department of environmental protection

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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

June 24, 2015

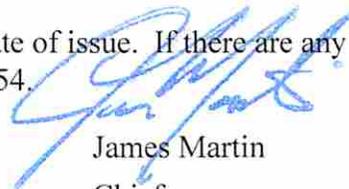
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4302037, 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: 6106  
Farm Name: SCITES, HIRAM  
**API Well Number: 47-4302037**  
**Permit Type: Plugging**  
Date Issued: 06/24/2015

**Promoting a healthy environment.**

**06/26/2015**

## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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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.

4302037P

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

*Inspector's  
Signed Copy*

1) Date: 4/20/2015  
2) Operator's Well No. 806106 P&A  
3) API Well No. 47-043-02037

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 676' Watershed Mud River  
District Union County Lincoln Quadrangle Hager, 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 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 04/27/15

Received 06/26/2015  
Office of Oil & Gas  
APR 29 2015

## 806106 P&amp;A PROCEDURE

- 1) Prepare road and location, MIRU service rig
- 2) Run in hole with tools to check TD (approximately 2000')
- 3) Attempt to pull 2" and packer
  - A) If successful
    - a) Run W.S. to 2000', spot gel
    - b) Spot 100' cement plug 2000'-1900'
    - c) Proceed to step 4
  - B) If unsuccessful
    - a) Cut 2" at free-point (approximately 1625') and pull
    - b) Run W.S. as deep as possible (approximately 1640'), spot gel
    - c) Spot 125' cement plug 1640'-1515'
    - d) Proceed to step 4
- 4) Pull W.S. to 1455', spot gel
- 5) Spot 200' cement plug 1455'-1255', pull W.S.
- 6) Run in hole with tools to check top of plug. If TOC is below 1280' then reset plug.
- 7) Cut 6 5/8" at free-point (approximately 650') and pull
- 8) Run W.S. to 650', spot gel
- 9) Spot 150' cement plug 650'-500', 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

OK  
ROT  
04/27/15

06/26/2015

Received  
Office of Oil & Gas

APR 29 2015

**UNITED FUEL GAS COMPANY**  
(INCORPORATED)

Well 806106 **A302037P**  
API 47-043-02037  
Map Square.....

Serial Well No. **6/06** **286**

Lease No.....

JARRETT PRINTING CO., CHARLESTON

<p>RECORD OF WELL No. <b>6/06</b> on the <b>Hiram Scites</b> Farm of Acres in <b>Union</b> District <b>Lincoln</b> County Field, State of <b>E. Va.</b></p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">CASING AND TUBING</th> </tr> <tr> <th>Size</th> <th>Used in Drilling</th> <th>Left in Well</th> </tr> <tr> <td>16</td> <td></td> <td></td> </tr> <tr> <td>13</td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td align="center"><b>22</b></td> </tr> <tr> <td>8 1-4</td> <td></td> <td></td> </tr> <tr> <td>6 5-8</td> <td></td> <td align="center"><b>1221</b></td> </tr> <tr> <td>5 3-16</td> <td></td> <td></td> </tr> <tr> <td>4 7-8</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td align="center"><b>2021</b></td> </tr> </table>	CASING AND TUBING			Size	Used in Drilling	Left in Well	16			13			10		<b>22</b>	8 1-4			6 5-8		<b>1221</b>	5 3-16			4 7-8			4			3			2		<b>2021</b>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">TEST BEFORE SHOT</th> </tr> <tr> <td><del>38</del> of Water in <b>2</b> inc 10ths</td> <td></td> </tr> <tr> <td>of Merc. in ..... inc 10ths</td> <td></td> </tr> <tr> <td>Volume..... Cu. f</td> <td></td> </tr> <tr> <th colspan="2">TEST AFTER SHOT</th> </tr> <tr> <td>of Water in..... inc 10ths</td> <td></td> </tr> <tr> <td><b>4</b> of Merc. in <b>2</b> inc 10ths</td> <td></td> </tr> <tr> <td>Volume..... Cu. f</td> <td></td> </tr> <tr> <td>Rock pressure..... <b>160</b></td> <td></td> </tr> <tr> <td>Date shot <b>10-26-23</b></td> <td></td> </tr> <tr> <td>Size of Torpedo <b>4 05 RB</b></td> <td></td> </tr> <tr> <td>Oil Flowed..... bbls. 1st 24 hr:</td> <td></td> </tr> <tr> <td>Oil Pumped..... bbls. 1st 24 hr:</td> <td></td> </tr> <tr> <td>Well abandoned and Plugged..... 19</td> <td></td> </tr> </table>	TEST BEFORE SHOT		<del>38</del> of Water in <b>2</b> inc 10ths		of Merc. in ..... inc 10ths		Volume..... Cu. f		TEST AFTER SHOT		of Water in..... inc 10ths		<b>4</b> of Merc. in <b>2</b> inc 10ths		Volume..... Cu. f		Rock pressure..... <b>160</b>		Date shot <b>10-26-23</b>		Size of Torpedo <b>4 05 RB</b>		Oil Flowed..... bbls. 1st 24 hr:		Oil Pumped..... bbls. 1st 24 hr:		Well abandoned and Plugged..... 19	
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**DRILLER'S RECORD**

Formation	Top	Bottom	Thickness	Remarks
Salt sand	608	962		<b>Gas from injun and berea</b>
Big Line	1272	1469		
Injun sand	1474	1492		
Berea sand	1981	1996		
<b>Total Depth</b>		<b>2021</b>		

Received  
Office of Oil & Gas  
**06/28/2015**  
APR 29 2015

4302037P

WW4-A  
Revised  
2/01

1) Date: 4/20/2015  
2) Operator's Well No. 806106 P&A  
3) API Well No. 47-043-02037

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 Edward G. Adkins  
Address 113 Morton Drive  
Hamlin, WV 25523  
  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
6) Inspector Ralph Triplett  
Address 5539 McClellan Highway  
Branchland, WV 25506  
  
Telephone 304-389-0350

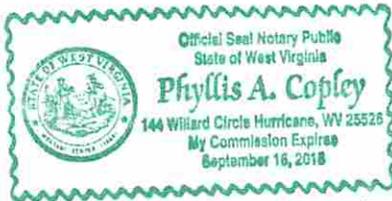
5) Coal Operator  
(a) Name None  
  
Coal Owner(s) with Declaration  
(b) Name Pocahontas Land Corporation  
Address 800 Princeton Avenue  
P.O. Box 1517  
Bluefield, WV 24701  
  
Name Chesapeake Appalachia, L.L.C.  
Address Attention: Fred Jones  
P.O. Box 6070  
Charleston, WV 25362-0070  
  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
Coal Lessee with Declaration  
(c) Name None  
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: R.S. Schmitt  
Its: Completion Superintendent  
Address: P.O. Box 18496  
Oklahoma City, OK 73154-0496  
Telephone: 405-935-4073

Subscribed and sworn before me this 20<sup>th</sup> day of April the year of 2015  
Phyllis A. Copley Notary Public  
My Commission Expires September 16, 2018

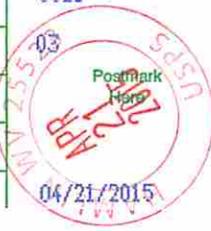
06/26/2015

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Postage	\$ 1.40	0523
Certified Fee	\$ 3.30	
Return Receipt Fee (Endorsement Required)	\$ 2.70	
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 7.40	



Sent To **806106 P&A**  
Pocahontas Land Corporation  
800 Princeton Avenue  
P.O. Box 1517  
Bluefield, WV 24701

Well 806106  
API  
47-043-  
02037P

CK5264513  
10000

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HAMLIN WV 25523

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Certified Fee	\$ 3.30	03
Return Receipt Fee (Endorsement Required)	\$ 2.70	
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total	\$ 7.40	



Sent To **806106 P&A**  
Edward G. Adkins  
113 Morton Drive  
Hamlin, WV 25523

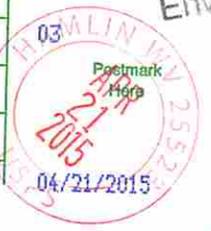
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WV Department of  
Environmental Protection

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CHARLESTON WV 25362

Postage	\$ 1.40	0523
Certified Fee	\$ 3.30	
Return Receipt Fee (Endorsement Required)	\$ 2.70	
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Post	\$ 7.40	



Sent To **806106 P&A**  
Chesapeake Appalachia, L.L.C.  
Attention: Fred Jones  
P.O. Box 6070  
Charleston, WV 25362-0070

06/26/2015

4302037A

Form WW-9  
Rev. 02/01

API Number 47-043-02037  
Operator's Well No. 806106 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 Mud River Quadrangle Hager, WV 7.5'

Elevation 676' County Lincoln District Union

Description of anticipated Pit Waste: Plugging Returns/Cement

Will a synthetic liner be used in the pit? Yes 20 mL.

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 *Robert E. Schindler*

Company Official (Typed Name) Robert E. Schindler

Company Official Title Completions Superintendent

Subscribed and sworn before me this 20<sup>th</sup> day of April, 2015.

*Phyllis A. Copley* Notary Public.

My Commission Expires September 16, 2018

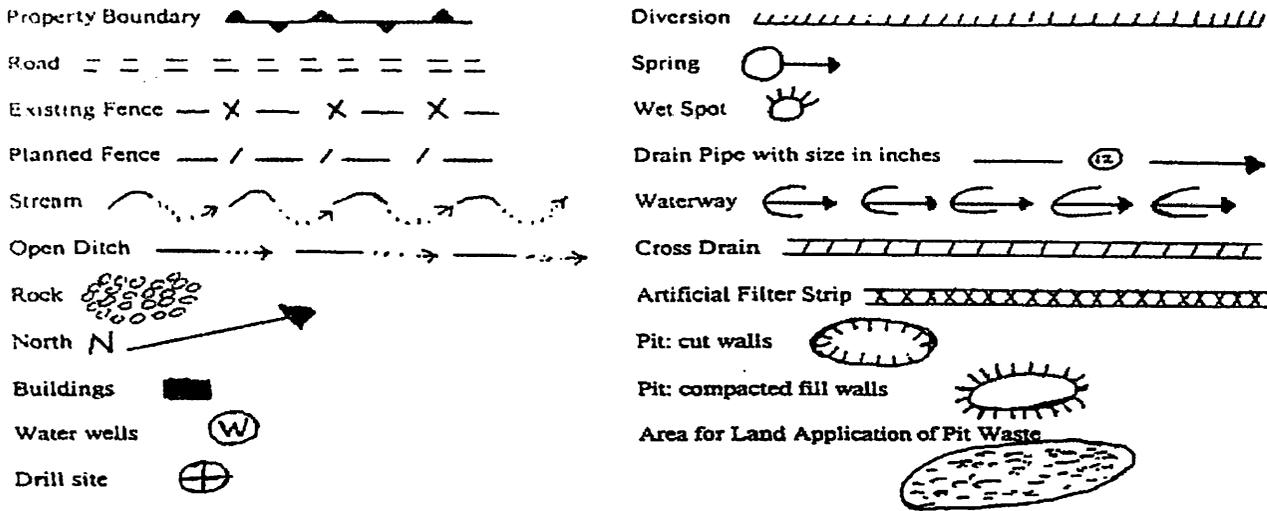


06/26/2015

Attachment #1

API #: 47-043-02037  
 Operator's Well No. 806106 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: *Ralph D. Tripett*

Title: *District Inspector*

Date: *April 27, 2015*

Field Reviewed? (  ) Yes (  ) No

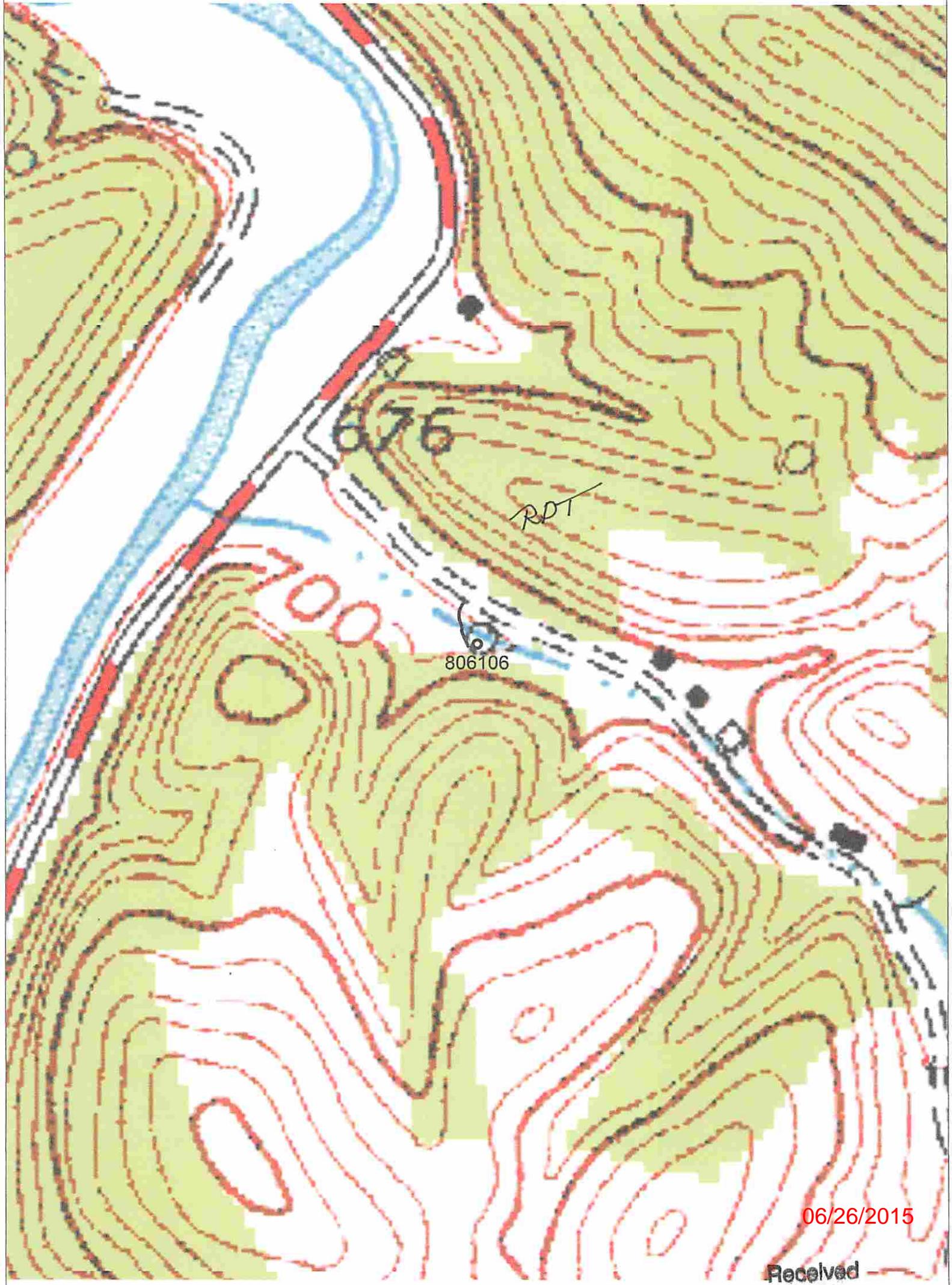
Received  
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 APR 29 2015  
 06/26/2015

4302037 P

CHESAPEAKE APPALACHIA, L.L.C.

TOPOGRAPHICAL MAP OF ACCESS AND  
WELL LOCATION 806106

API 47-043-02037



06/26/2015

Received  
Office of Oil & Gas

APR 29 2015

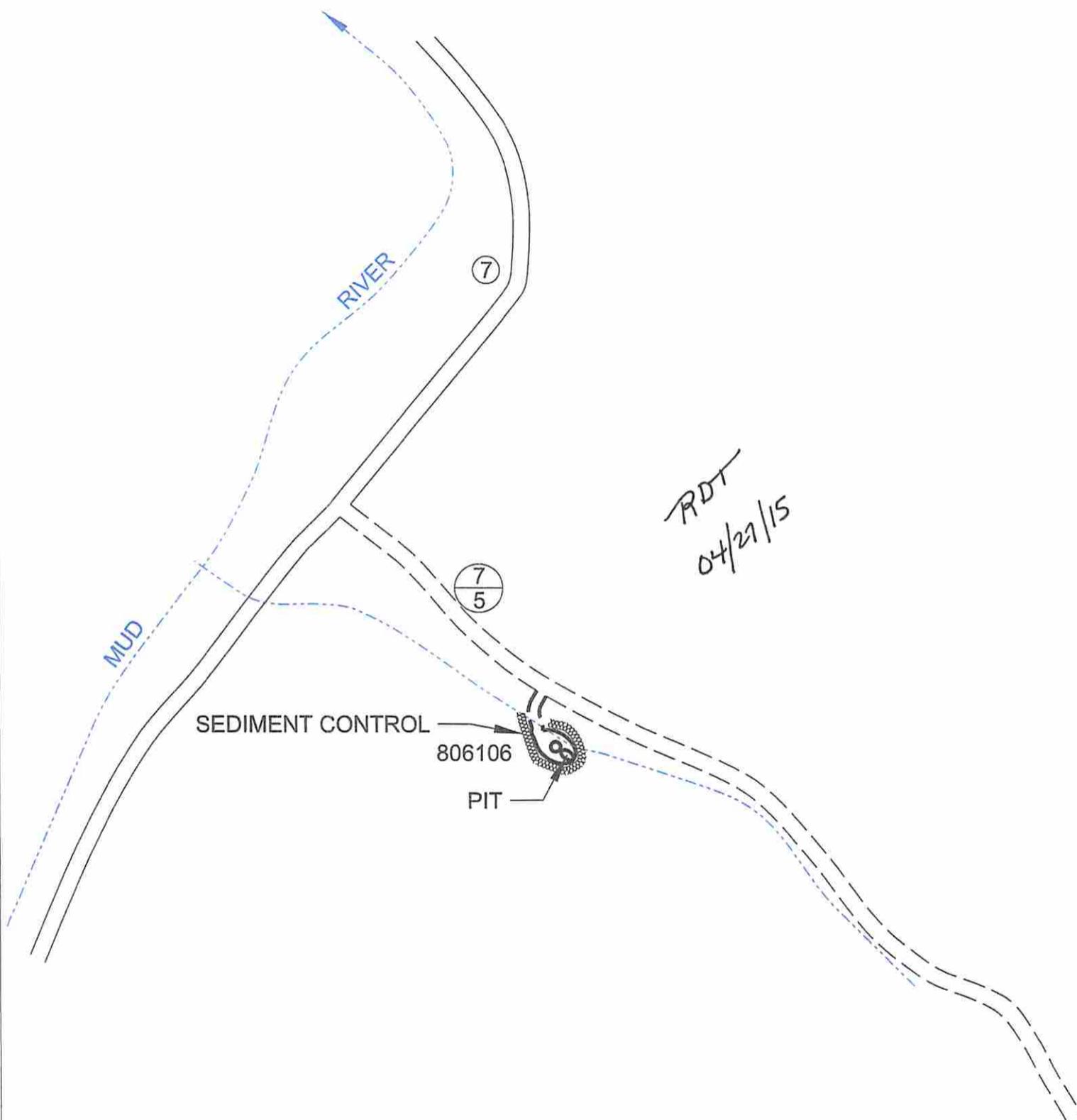
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# CHESAPEAKE APPALACHIA, L.L.C.

## RECLAMATION DIAGRAM

### WELL LOCATION 806106

API 47-043-02037



#### 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.

06/26/2015  
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 Office of Oil & Gas

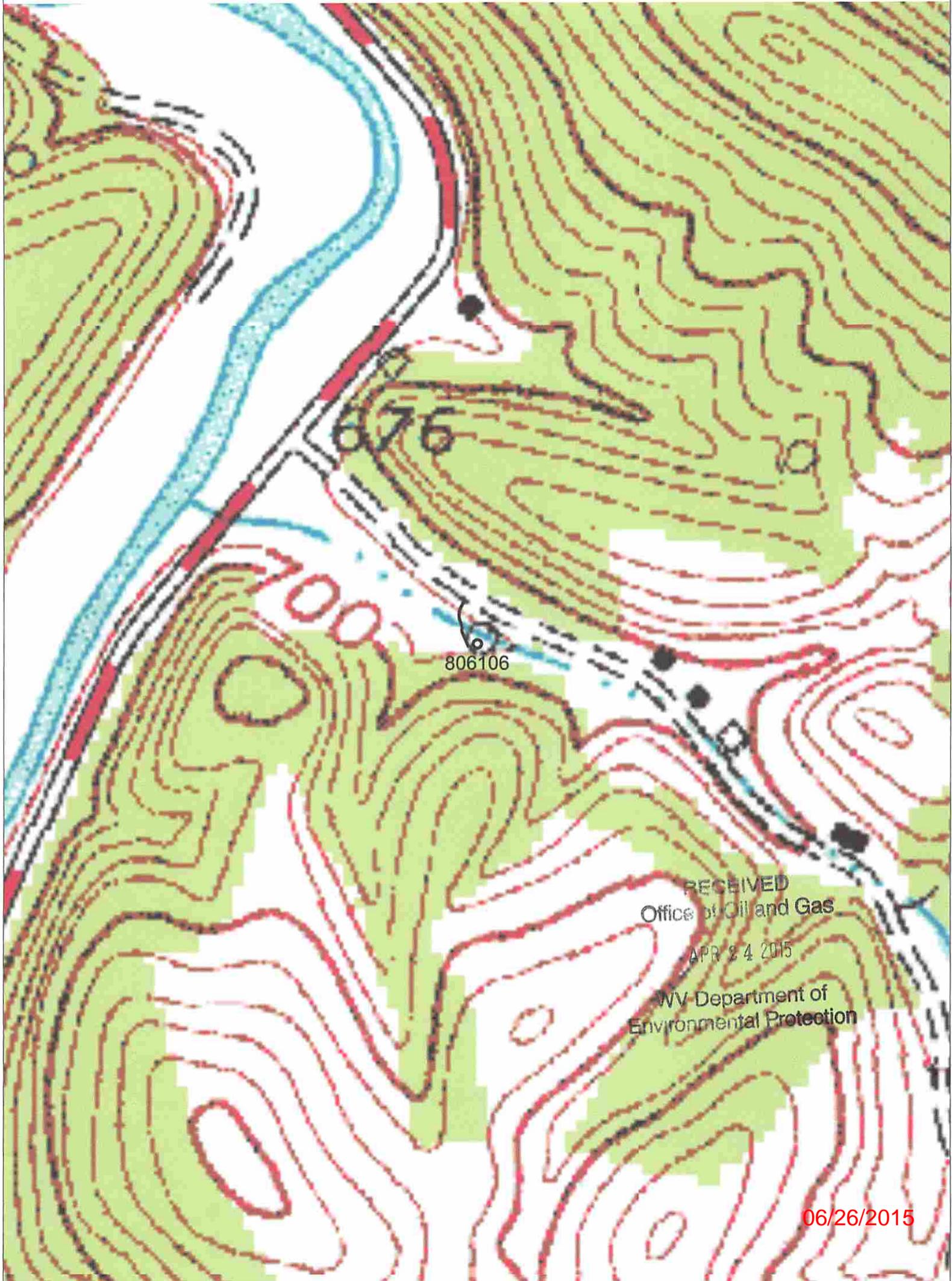
APR 29 2015

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CHESAPEAKE APPALACHIA, L.L.C.

TOPOGRAPHICAL MAP OF ACCESS AND  
WELL LOCATION 806106

API 47-043-02037



RECEIVED  
Office of Oil and Gas  
APR 24 2015  
WV Department of  
Environmental Protection

06/26/2015

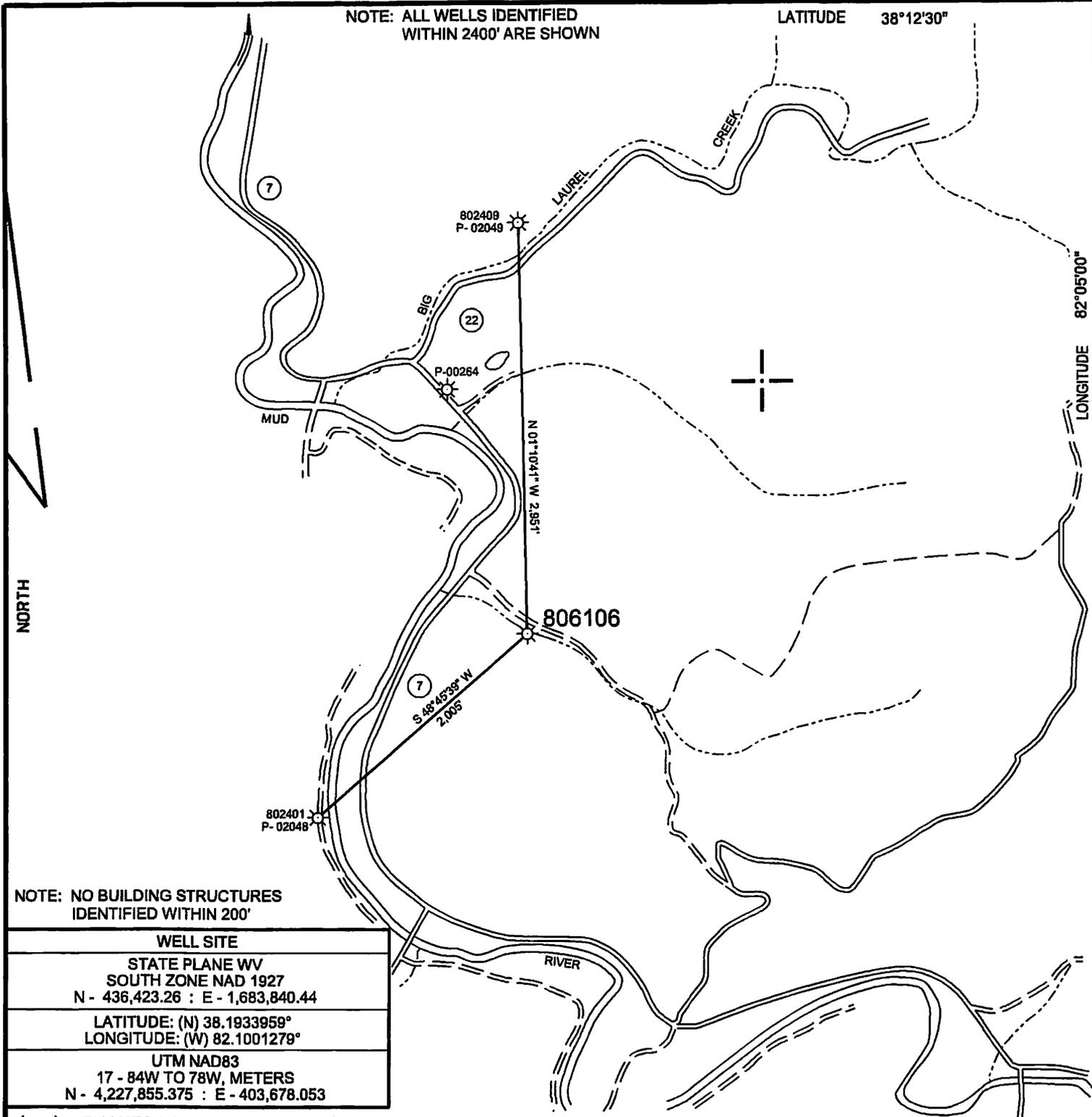
NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

LATITUDE 38°12'30"

4,821'

LONGITUDE 82°05'00"

5,435'



NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

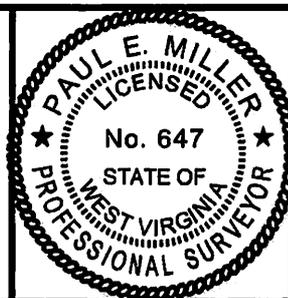
<b>WELL SITE</b>
STATE PLANE WV SOUTH ZONE NAD 1927 N - 436,423.26 : E - 1,683,840.44
LATITUDE: (N) 38.1933959° LONGITUDE: (W) 82.1001279°
UTM NAD83 17 - 84W TO 78W, METERS N - 4,227,855.375 : E - 403,678.053

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

FILE NO.	806106 P&A.DGN
DRAWING NO.	806106 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 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 MARCH 3, 2015  
OPERATOR'S WELL NO. 806106  
API WELL NO.

47 043 02037 P  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 676' WATER SHED MUD RIVER  
DISTRICT \_\_\_\_\_ UNION \_\_\_\_\_ COUNTY LINCOLN  
QUADRANGLE HAGER, WV 7.5'

SURFACE OWNER EDWARD G. ADKINS ACREAGE -

OIL & GAS ROYALTY OWNER CHESAPEAKE APPALACHIA, L.L.C. LEASE ACREAGE \_\_\_\_\_  
LEASE NO. FEE OIL&GAS

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 \_\_\_ 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

COUNTY NAME

PERMIT

06/26/2015

FORM WV-6

**F  
NOW**

Operator: CHESAPEAKE APPALACHIA, L.L.C.

API: 4302037

WELL No: 6106

Reviewed by: gwm Date: 6/22/15

45 Day End of Comment: 04/29/15

**CHECKLIST FOR FILING A PERMIT**

**Plugging**

**CK# 5264513**

**\$100<sup>00</sup>**

- WW-4B
- Inspector signature on WW-4B
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee / Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

**OR**

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$100.00 check (\$0.00 if no pit)

**06/26/2015**