



**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

July 14, 2014

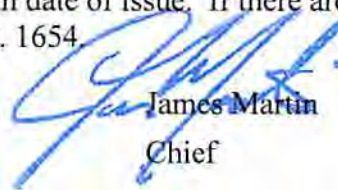
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4300963, 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: 806630 (6630)  
Farm Name: GOODMAN, ELVA - ADKINS, SA  
**API Well Number: 47-4300963**  
**Permit Type: Plugging**  
Date Issued: 07/14/2014

## 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

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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 within two years of the date of issuance of this permit.

4300963A

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

1) Date: 4/23/2014  
2) Operator's Well No. 806630 P&A  
3) API Well No. 47-043-00963

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 905' Watershed Big Ugly Creek  
District Harts Creek County Lincoln Quadrangle Big Creek, WV 7.5'
- 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 5/27/14

07/18/2014  
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Office of Oil and Gas  
JUN 03 2014  
WV Department of  
Environmental Protection

OK  
P. 11/17

47-043-00963 P

806630 P&A PROCEDURE

- 1) Prepare road and location, MIRU service rig
- 2) RIH with tools and check for top of cavings (approximately 2025')
- 3) Run W.S. to 2000', load hole with gel
- 4) Spot 150' cement plug 2000'-1850', pull W.S. to 1715'
- 5) Spot 115' cement plug 1715'-1600', pull W.S. to 1525'
- 6) Spot 100' cement plug 1525'-1425', pull W.S.
- 7) RIH with tools to check top of plug (If top of plug is below 1450' then re-set plug)
- 8) Cut 7" at free-point (approximately 825') and pull
- 9) Run W.S. to 825', load hole with gel
- 10) Spot 100' cement plug 825'-725', pull W.S.
- 11) Attempt to pull 8 5/8" casing
  - A) If successful
    - a) Run W.S. to 500', load hole with gel
    - b) Spot 100' cement plug 500'-400'
    - c) Proceed to step 12
  - B) If unsuccessful
    - a) Run W.S. to 500'
    - b) Spot 100' cement plug 500'-400', pull W.S.
    - c) Cut 8 5/8" at free-point (approximately 150') and pull
    - d) Proceed to step 12
- 12) Pull or run W.S. to 150'
- 13) Spot 150' cement plug 150' – surface
- 14) Pull W.S. and top off with cement
- 15) Set monument and reclaim as prescribed by law

OK  
TRDT

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Little Lime			1410	1440			
Pencil Cave			1440	1443			
Big Lime			1443	1632	Show Gas	1535'	in Big Lime
					Gas	1590'	Big Line 3/10 W 1" 18 M
Injun Sand			1632	1715	Gas	1708'	Injun 6/10 W 1" 26 M
Broken Sand			1715	1815			
Big Shell			1815	1880			
Slate & Shells			1880	2186			
Berea Sand			2186	2198			
Lime Shell			2198	2222			
Slate & Shells			2222	3245			
Brown Shale			3245	3595	Gas	3437'	Shale 8/10 W 1" 30 M
white slate			3595	3610			
Total depth				3610 DLM			

Test before shot 8/10 W 1" 30 M  
 Shot 3-27-51 with 2400# DuPont Gelatin  
 from 3237-3610  
 Test 20 hours after shot 4/10 W 2" 84 M

FINAL OPEN FLOW - 84 M Shale  
 6 day R.P. 478#

Shut in 3-28-51 in 7" casing.

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 MAY 22 2014

Date May 10, 2014 **Environmental Protection**  
 APPROVED UNITED FULLTIME COMPANY Owner  
 By [Signature]  
 (Title) Chief Engineer  
 07/18/2014



API 47-043-00963P  
Well 806630

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Pg 1 of 2

*Midkiff*

WELL RECORD

Permit No. LIN-963

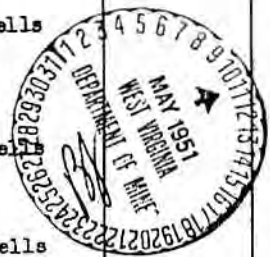
Oil or Gas Well Gas  
(KIND)

Company United Fuel Gas Company  
 Address P.O. Box 1273, Charleston 25, W. Va.  
 Farm Irvin Dugan Acres 125  
 Location (waters) Big Ugly Creek  
 Well No. 6630 Elev. 879.43  
 District Harts Creek County Lincoln  
 The surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by Irvin Dugan  
1601 - 5th Avenue Address Huntington 3, W. Va.  
 Drilling commenced 1-5-51  
 Drilling completed 3-25-51  
 Date Shot 3-27-51 From 3237 To 3610  
 With 2400# Gal.  
 Open Flow 4/10ths Water in 2 Inch  
/10ths Merc. in Inch  
 Volume 84M - Shale Cu. Ft.  
 Rock Pressure 478 lbs. 6 Days hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water 114 feet feet  
 Salt water 812 feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
12			
10 <u>3/4</u>	<u>33'</u>	<u>33'</u>	Size of
<del>8-5/8</del>	<u>443'</u>	<u>443'</u>	Depth set
<del>7"</del>	<u>1468'</u>	<u>1468'</u>	
5 8/16			Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT 112 FEET 24 INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface			0	2			
Sand			2	8			
Slate			8	60			
Sand			60	75			
Slate			75	95			
Sand			95	108			
Slate			108	112			
Coal			112	114			
Slate			114	170	Water	114'	Fresh 1-10" bailer every 2 1/2 Hours
Sand			170	215			
Slate			215	268			
Sand			268	285			
Slate			285	300			
Sand			300	344			
Slate			344	392			
Sand			392	404			
Slate			404	475			
Sand			475	488			
Slate			488	535			
Sand			535	560			
Slate			560	726			
Sand			726	750			
Slate & Shells			750	795			
Salt Sand			795	842	Water	812'	Salt hole full
Slate			842	864			
Lime Shell			864	900			
Salt Sand			900	974			
Slate & Shells			974	994			
Lime Shell			994	1165			
Slate			1165	1168			
Sand			1168	1234			
Slate & Shells			1234	1287			
Red Rock			1287	1297			
Lime Shells			1297	1303			
Red Rock			1303	1323			
Slate & Shells			1323	1378			
Lime Shell			1378	1410			



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 MAY 22 2014  
 WV Department of  
 Environmental Protection

4300963P

WW4-A  
Revised  
2/01

1) Date: 4/23/2014  
2) Operator's Well No. 806630 P&A  
3) API Well No. 47-043-00693

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 Elva Goodman  
Address 1st American Way  
Westlake, Texas 76262  
  
(b) Name Samp & Lucille Adkins  
Address Box 278  
Harts, WV 25524  
  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
6) Inspector Ralph Triplett  
Address 5539 McClellan Highway  
Branchland, WV 25506  
  
Telephone 304-389-0350

5) Coal Operator  
(a) Name None  
Address \_\_\_\_\_  
  
Coal Owner(s) with Declaration  
(b) Name Lynn Dugan  
Address 4146 Skyline Drive  
Las Cruces, NM 88007  
  
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

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Subscribed and sworn before me this 23rd day of April the year of 2014  
Phyllis A. Copley Notary Public  
My Commission Expires September 16, 2018  
Form WW-9

MAY 23 2014

WV Department of  
Environmental Protection

07/18/2014

4300963P

Will 806630

API

47-043-00963

CK 51328  
10000

7012 3460 0000 4499 2753

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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	
<b>Total Postage &amp; Fees</b>	<b>\$ 17.40</b>	<b>05/21/2014</b>

Sent To: **806630 P&A**  
 Elva Goodman  
 1<sup>st</sup> American Way  
 Westlake, Texas 76262

PS Form 3800

7012 3460 0000 4499 2746

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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	
<b>Total Postage &amp; Fees</b>	<b>\$ 17.40</b>	<b>05/21/2014</b>

Sent To: **806630 P&A**  
 Samp & Lucille Adkins  
 Box 278  
 Harts, WV 25524

PS Form 3800

7012 3460 0000 4499 2739

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LAS CRUCES, NM 88007

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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	
<b>Total Postage &amp; Fees</b>	<b>\$ 17.40</b>	<b>05/21/2014</b>

Sent To: **806630 P&A**  
 Lynn Dugan  
 4146 Skyline Drive  
 Las Cruces, NM 88007

PS Form 3800

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Environmental Protection

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4300963P

Rev. 02/01

API Number 47-043-00693  
Operator's Well No. 806630 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 Big Ugly Creek Quadrangle Big Creek, WV 7.5'

Elevation 905' County Lincoln District Harts Creek

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

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Subscribed and sworn before me this 23rd day of April, 2014 Office of Oil and Gas

Phyllis A. Copley

MAY 22 2014  
Notary Public.

My Commission Expires September 16, 2018

WV Department of Environmental Protection



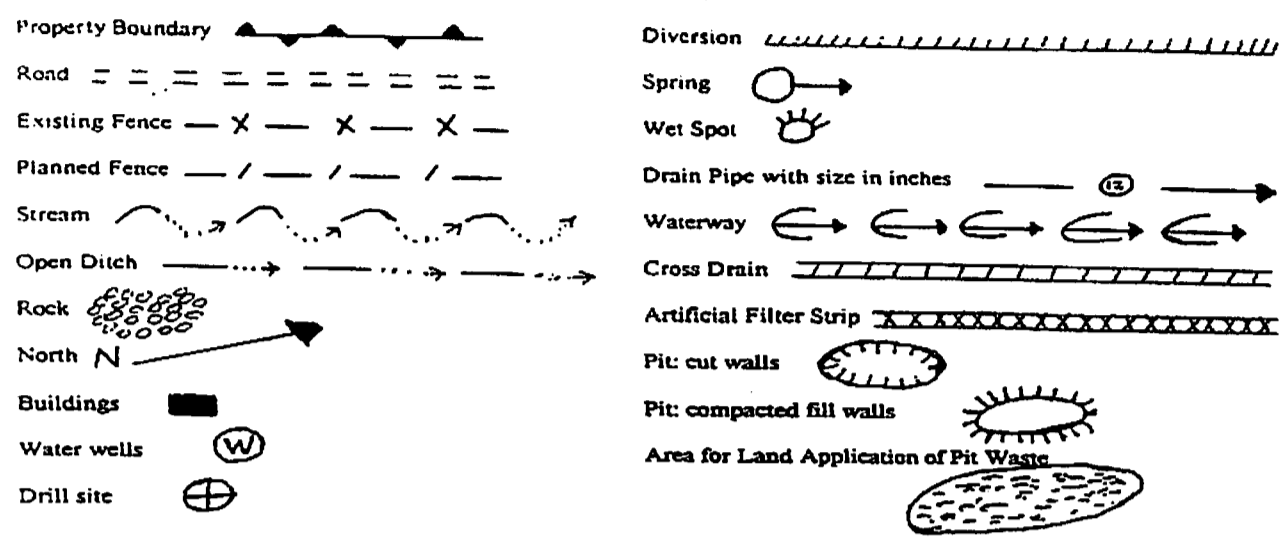
07/18/2014

4300963P

Attachment #1

API #: 47-043-00693  
Operator's Well No. 806630 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: Ronald D. Trippe

Title: District Inspector

Date: May 27, 2014

Field Reviewed? ( ) Yes ( X ) No

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# CHESAPEAKE APPALACHIA, L.L.C.

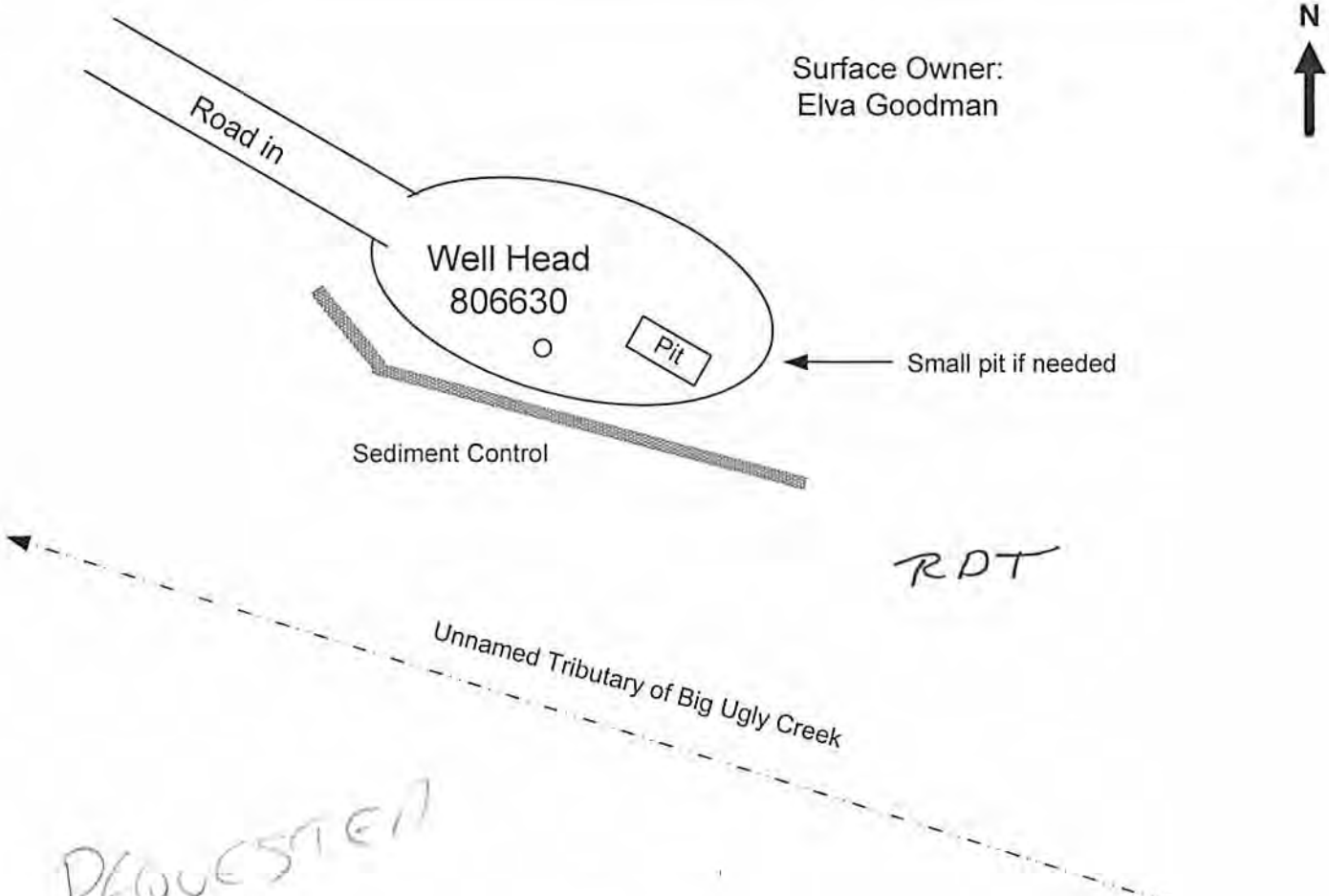
4300963P

Diagram of Well 806630 P&A

API 47-04300963

Field Office - Branchland

County - Lincoln



Surface Owner:  
Elva Goodman



Well Head  
806630

Pit

Small pit if needed

Sediment Control

RDT

Unnamed Tributary of Big Ugly Creek

REQUESTED  
DETAIL

KA 5-29-14

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JUN 03 2014  
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## Site Plan

Prepared by: Kris Aldridge  
Date: 5/29/2014

NOT SCALE 6/7/14

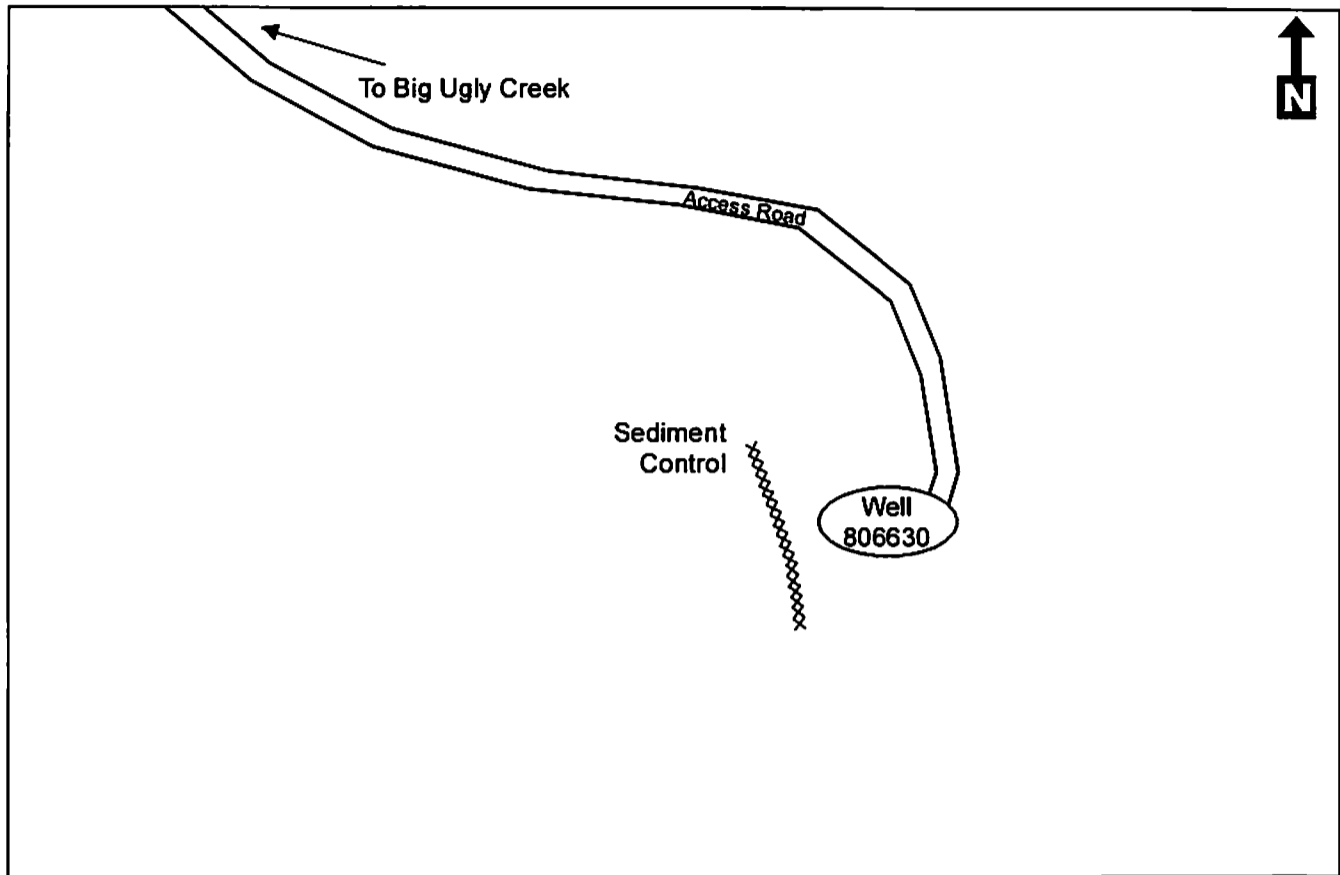
**CHESAPEAKE APPALACHIA, L.L.C.**

Diagram of Well 806630

API 47-043-00963

Field Office - Branchland

County - Lincoln

**GENERAL NOTES**

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

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

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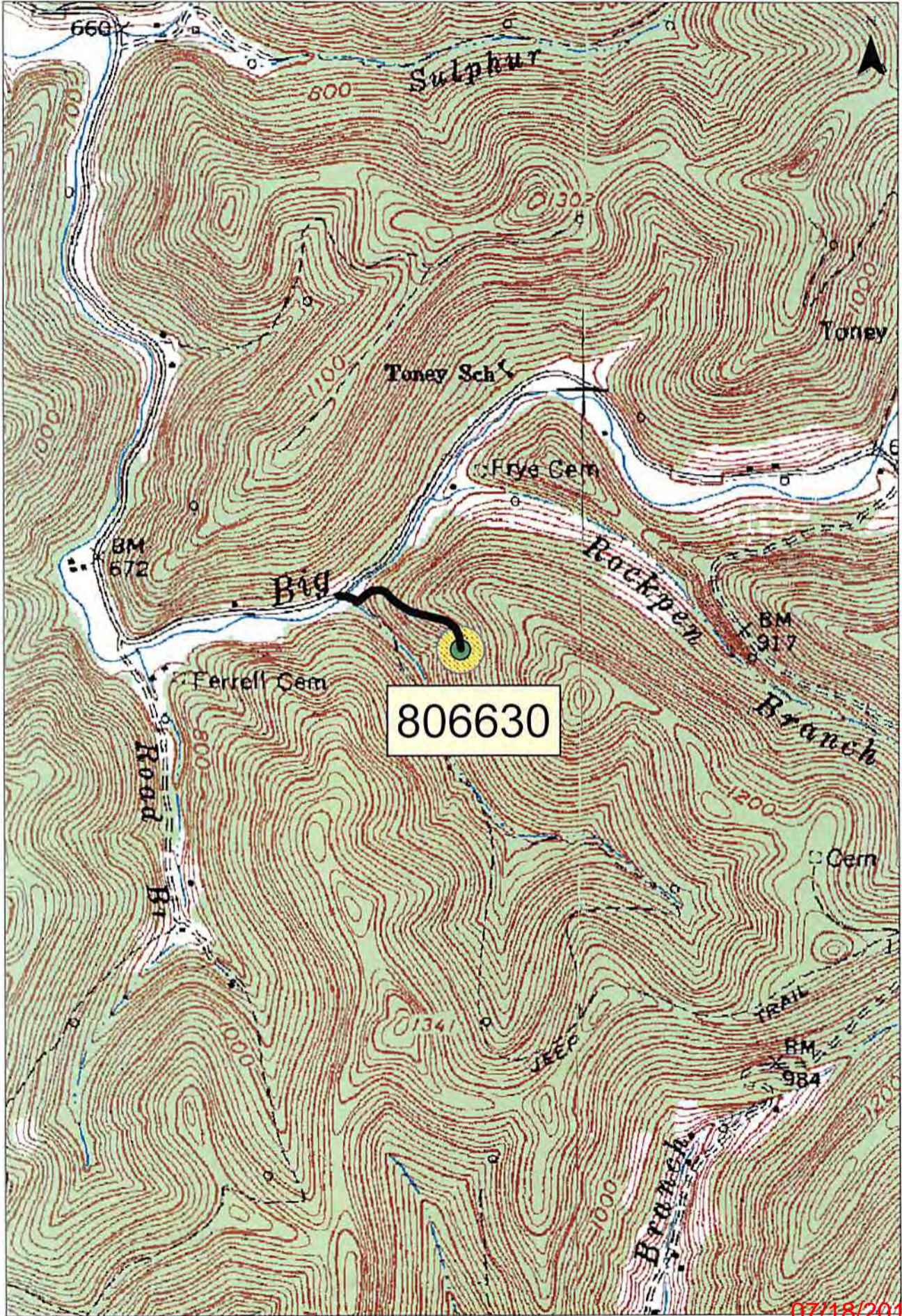
07/18/2014

**Site Plan**

Prepared by: Lloyd Reynolds  
Date: 05/20/2014

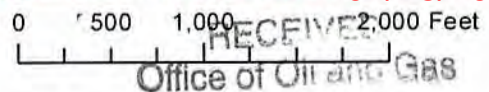
# CHESAPEAKE APPALACHIA, L.L.C.

Topographical Map of Access  
and Well Location 806630  
API 47-043-00963  
Field Office - Branchland  
County - Lincoln



07/18/2014

1:12,000



Office of Oil and Gas

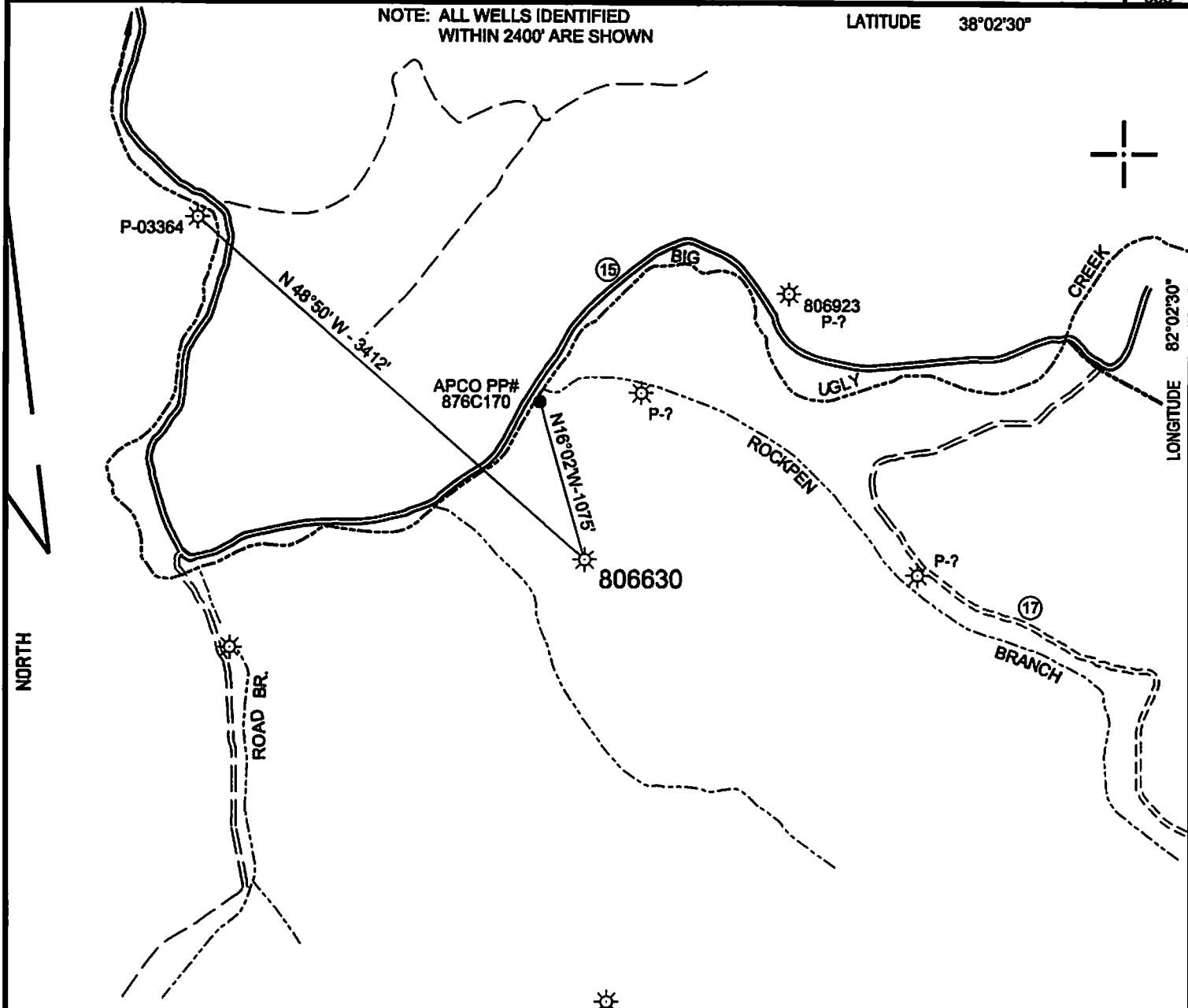
MAY 22 2014

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°02'30"



888'  
1896'  
03°20'38"  
LONGITUDE

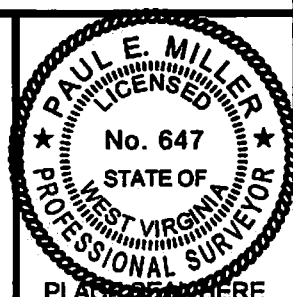
<b>SURFACE HOLE</b>
STATE PLANE WV NORTH/SOUTH ZONE NAD 1927 N - 379,025.03 : E - 1,699,119.60
LATITUDE: (N) 38.0362623 LONGITUDE: (W) 82.0447150
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,210,364.203 : E - 408,333.800

NOTE: NO BUILDING STRUCTURES  
IDENTIFIED WITHIN 200'

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

FILE NO.	806630P&A.DGN
DRAWING NO.	6830 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 MARCH 26, 20 14  
OPERATOR'S WELL NO. 806630  
API WELL NO.

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

LOCATION: ELEVATION 805' WATER SHED BIG UGLY CREEK  
DISTRICT HARTS CREEK COUNTY LINCOLN  
QUADRANGLE BIG CREEK, WV 7.5'

SURFACE OWNER ELVA GOODMAN - SAMP & LUCILLE ADKINS ACREAGE 125  
OIL & GAS ROYALTY OWNER IRVIN McMAHON DUGAN LEASE ACREAGE 125  
LEASE NO. 1-044718-000

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. GILLISPIE  
ADDRESS PO BOX 18496 OKLAHOMA CITY, OK 73154-0496 ADDRESS SAME

FORM WW-6

COUNTY NAME

PERMIT

07/18/2014