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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](http://www.dep.wv.gov)

March 28, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4301460, 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: 502071 (V-2071)  
Farm Name: MAYNARD, SHAROL  
**API Well Number: 47-4301460**  
**Permit Type: Plugging**  
Date Issued: 03/28/2014

## 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.

4301460P  
CK. 5134963  
9102

1) Date: 3/11/2014  
2) Operator's Well No. 502071 P&A  
3) API Well No. 47-043-01460

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

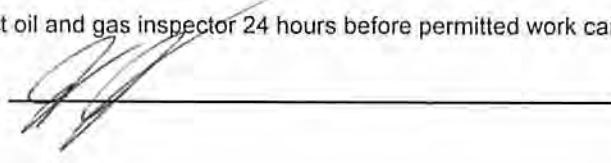
- 4) Well Type: Oil        Gas   X   Liquid injection        Waste disposal         
(Is Gas, Production   X   or Underground storage       ) Deep        Shallow   X
- 5) Location: Elevation   986'   Watershed   East Fork of Twelvepole Creek    
District   Harts Creek   County   Lincoln   Quadrangle   Wilsondale, 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 Name   Ralph Triplett    
Address   5539 McClellan Highway    
  Branchland, WV 25506
- 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:

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



Date   3-20-14  

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03/28/2014

## 502071 P&amp;A PROCEDURE

- 1) Prepare road and location, MIRU service rig
- 2) Pull 5/8" rods and 2 3/8" tubing, RIH with tools to check TD at 1200'
- 3) Run W.S. to 1185', load hole with gel
- 4) Spot 100' cement plug 1185'-1085', pull W.S.
- 5) Attempt to pull 7" casing
  - A) If successful
    - a) Run W.S. to 1080', load hole with gel
    - b) Spot 100' cement plug 1080'-980'
    - c) Proceed to step #6
  - B) If unsuccessful
    - a) Run W.S. to 1080'
    - b) Spot 100' cement plug 1080'-980', pull W.S.
    - c) Cut 7" at free-point (approximately 850') and pull
    - d) Proceed to step #6
- 6) Run or pull W.S. to 850', load hole with gel
- 7) Spot 100' cement plug 850'-750', pull W.S. to 725'
- 8) Spot 125' cement plug 725'-600', pull W.S. to 475'
- 9) Spot 100' cement plug 475'-375', pull W.S. to 125'
- 10) Spot 125' cement plug 125' – surface
- 11) Pull W.S. and top off with cement
- 12) Erect monument and reclaim as prescribed by law



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Well 502071 PTA  
API 47-043-01460P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle NAUGATUCK

Permit No. IIN-1453 - Cancelled  
new 1460

WELL RECORD

Oil or Gas Well Oil  
(KIND)

Company <u>The Preston Oil Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>Charleston, West Virginia</u>	Size			
Farm <u>U.S. Co., Wm. Tr. #1</u> Acres <u>21,768.09</u>	16			Kind of Packer
Location (waters) <u>Last Cr. of 12 Hole Creek</u>	13			
Well No. <u>5-2-71</u> Elev. <u>963.56'</u>	10	<u>1716"</u>	<u>1716"</u>	Size of
District <u>Warto Creek</u> County <u>Lincoln</u>	8 1/4	<u>428</u>	<u>428</u>	Depth set
The surface of tract is owned in fee by	<u>7"</u>	<u>1037</u>	<u>1037</u>	
Address	5 3/16			
Mineral rights are owned by <u>U.F.G. Co.</u>	4 1/2			
Address	3			Perf. top
Drilling commenced <u>July 5, 1971</u>	2	<u>1213'</u>	<u>1213'</u>	Perf. bottom
Drilling completed <u>July 22, 1971</u>	Liners Used			Perf. top
Date Shot <u>7-22-71</u> From <u>1188</u> To <u>1198</u>				Perf. bottom
With <u>50 lbs. Glycerine</u>				
Open Flow <u>/10ths Water in</u> Inch	Attach copy of cementing record.			
<u>/10ths Merc. in</u> Inch	CASING CEMENTED <u>8"</u> SIZE <u>428</u> No. Ft. <u>7-7-71</u> Date			
Volume <u>Cu. Ft.</u>	Amount of cement used (bags) <u>75</u>			
Rock Pressure <u>lbs.</u> hrs.	Name of Service Co. <u>Colliburton Co.</u>			
Oil <u>api spec 12</u> bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT <u>70</u> FEET INCHES			
WELL ACIDIZED (DETAILS)	FEET INCHES FEET INCHES			
WELL FRACTURED (DETAILS)	FEET INCHES FEET INCHES			

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 10 bbls. 1st 24 hours

ROCK PRESSURE AFTER TREATMENT HOURS

Fresh Water Feet Salt Water Feet

Producing Sand Depth

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0'	17'			
Sand			17	25			
Slate			25	35			
Sand			35	60			
Slate			60	70			
Coal			70	73			
Broken Sand			73	110			
Slate			110	150			
Broken Sand			150	170			
Slate			170	220			
Sand			220	295			
Slate			295	350			
Sand			350	380			
Slate			380	620			
Sand			620	767	Water	640'	
Slate			767	801			
Salt Sand			801	1030	Oil	725'	
Slate & Shells			1030	1153	Water	901'	
Broken Sand			1153	1170	Water	980'	
Sand			1170	1203	Gas & Oil	1191 to 1193	
TOTAL				1203			

Received

MAR 18 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection  
4 bailers per hr.

1 bailer per hr  
hole full

Log by 7-27-71  
by So. Lumberger

Shot by Sure  
5' Anchor

4301460P

WW4-A  
Revised  
2/01

1) Date: 3/11/2014  
2) Operator's Well No. 502071 P&A  
3) API Well No. 47-043-01460

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 Sharol J. Maynard  
Address 198 12 Pole Creek  
Wilsondale, WV 25699  
  
(b) Name Ked and Gail Messer (Access road)  
Address HC 73, Box 4105  
Dingess, WV 25671  
  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
6) Inspector Ralph Triplett  
Address 5539 McClellan Highway  
Branchland, WV 25506  
  
Telephone 304-389-0350

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 Poahontas Land Corporation  
Address 800 Princeton Avenue  
Bluefield, WV 24701  
  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
Coal Lessee with Declaration  
(c) Name Rockspring Development, Inc.  
Address 400 Patterson Lane  
Charleston, WV 25311

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.

Received

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.

MAR 18 2014

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.

Office of Oil and Gas  
WV Dept. of Environmental Protection



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 17th day of March the year of 2014  
Phyllis A. Copley Notary Public  
My Commission Expires September 16, 2018  
Form WW-9

03/28/2014

5134963  
10000  
430146P

7012 3460 0000 4499 2524

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Return Receipt Fee (Endorsement Required)	\$ 2.70		Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00		
<b>Total Postage &amp; Fees</b>	<b>\$ 7.40</b>		<b>03/17/2014</b>

Sent To  
502071 P&A (Access Road)  
Ked & Gail Messer  
HC 73, Box 4105  
Dingess, WV 25671

PS Form 3800

7012 1640 0000 0167 9888

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WILSONDALE WV 25699

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Certified Fee	\$ 3.30	05	
Return Receipt Fee (Endorsement Required)	\$ 2.70		Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00		
<b>Total Postage &amp; Fees</b>	<b>\$ 7.40</b>		<b>03/17/2014</b>

Sent To  
502071 P&A  
Sharol J. Maynard  
198 12 Pole Creek  
Wilsondale, WV 25699

PS Form 3800

7012 1640 0000 0167 9978

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DUNLOW WV 25511

**OFFICIAL USE**

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Certified Fee	\$ 3.30	05	
Return Receipt Fee (Endorsement Required)	\$ 2.70		Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00		
<b>Total Postage &amp; Fees</b>	<b>\$ 7.40</b>		<b>03/17/2014</b>

Sent To  
502071  
Argus Energy-WV, LLC  
9104 Twelve Pole Creek Road  
Dunlow, WV 25511

PS Form 3800

7012 3460 0000 4499 2517

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BLUEFIELD WV 24701

**OFFICIAL USE**

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Certified Fee	\$ 3.30	05	
Return Receipt Fee (Endorsement Required)	\$ 2.70		Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00		
<b>Total Postage &amp; Fees</b>	<b>\$ 7.40</b>		<b>03/17/2014</b>

Sent To  
502071 P&A  
Pocahontas Land Corp.  
800 Princeton Avenue  
Bluefield, WV 24701

PS Form 3800

7012 1640 0000 0167 9895

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CHARLESTON WV 25311

**OFFICIAL USE**

Postage	\$ 1.40	0523	
Certified Fee	\$ 3.30	05	
Return Receipt Fee (Endorsement Required)	\$ 2.70		Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00		
<b>Total Postage &amp; Fees</b>	<b>\$ 7.40</b>		<b>03/17/2014</b>

Sent To  
502071 P&A  
Rockspring Development, Inc.  
400 Patterson Lane  
Charleston, WV 25311

PS Form 3800

Received

MAR 18 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

03/28/2014

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 East Fork of Twelvepole Creek Quadrangle Wilsondale, WV 7.5'  
Elevation 986' 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*

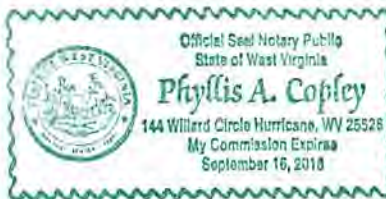
Company Official (Typed Name) David Gocke

Company Official Title Manager - Operations, Appalachia South

Subscribed and sworn before me this 17<sup>th</sup> day of March, 2014.

*Phyllis A. Copley* Notary Public.

My Commission Expires September 16, 2018



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Attachment #1

API #: 47-043-01460  
Operator's Well No. 502071 P&A

LEGEND

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water wells
- Drill site

- Diversion
- Spring
- Wet Spot
- Drain Pipe with size in inches
- Waterway
- Cross Drain
- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

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: ~~3-24-14~~ 3-24-14

Field Reviewed?  Yes  No

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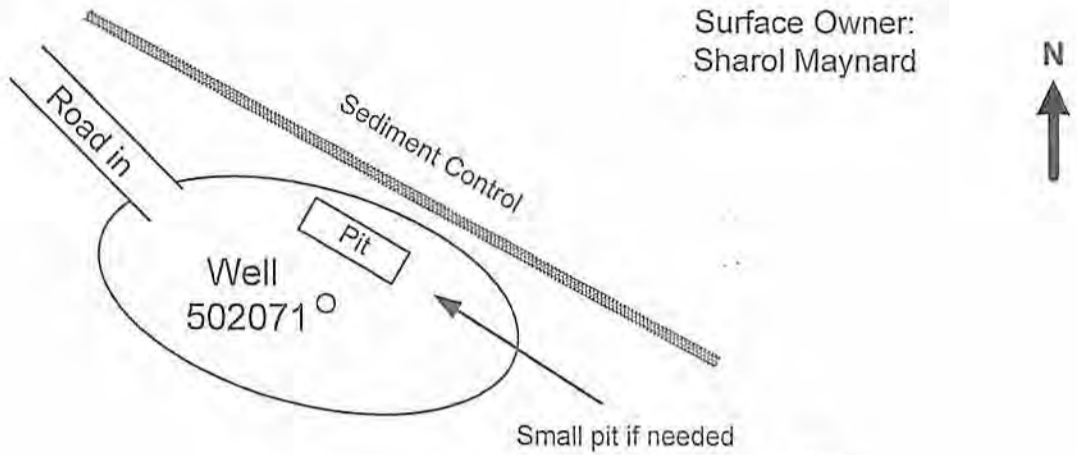
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Diagram of Well 502071

API 47-043-1460

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 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: 3/11/2014

No Scale

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03/28/2014  
MAR 26 2014

WV Department of  
Environmental Protection

# CHESAPEAKE APPALACHIA, L.L.C.

4301460P

Topographic Map of Access and Well

Location 502071

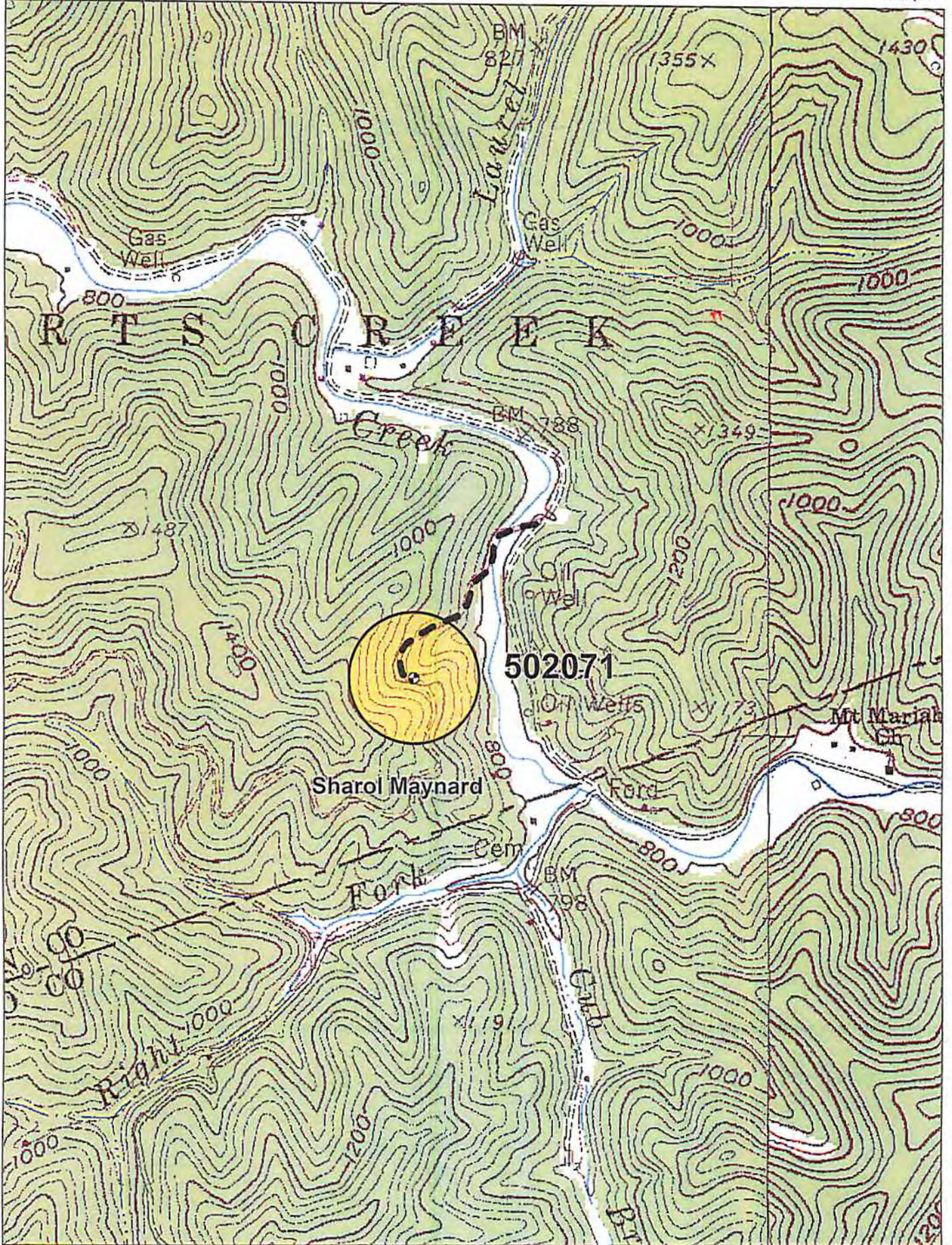
API 47-043-1460

Field Office - Branchland

County - Lincoln



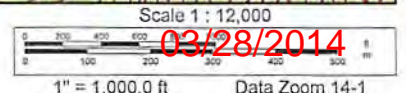
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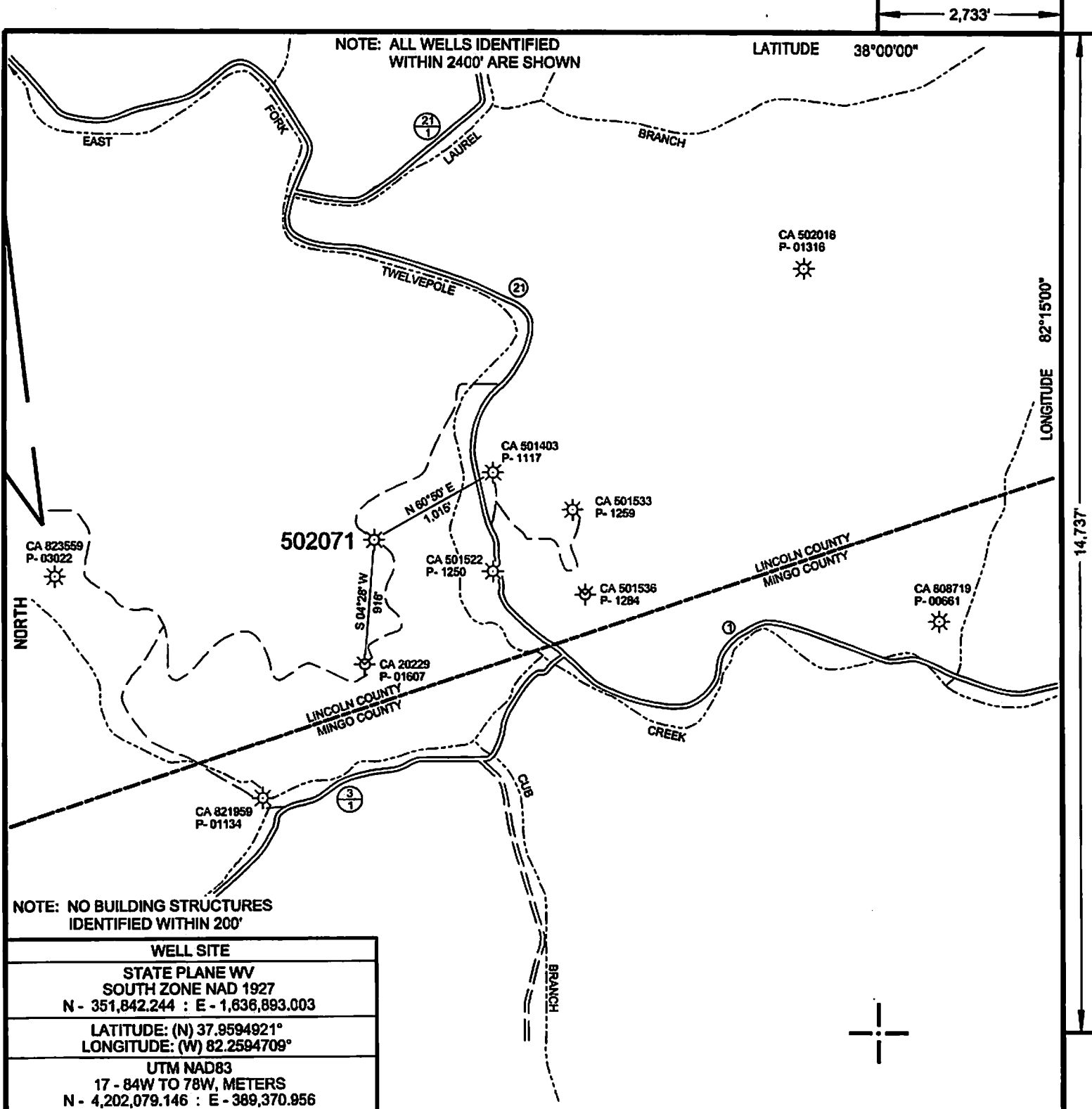


## Received

MAR 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°00'00"

2,733'

LONGITUDE 82°15'00"

14,737'

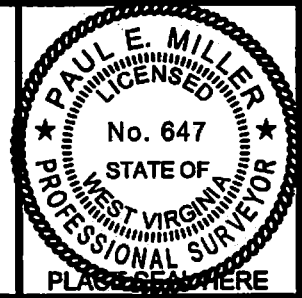
NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

<b>WELL SITE</b>
STATE PLANE WV SOUTH ZONE NAD 1927 N - 351,842.244 : E - 1,836,893.003
LATITUDE: (N) 37.9594921° LONGITUDE: (W) 82.2594709°
UTM NAD83 17 - 84W TO 78W, METERS N - 4,202,079.146 : E - 389,370.956

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

FILE NO.	CA502071P&A.DGN
DRAWING NO.	CA502071P&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 4, 2014		
		OPERATOR'S WELL NO.	502071		
		API WELL NO.	47	043	01460 P
			STATE	COUNTY	PERMIT
WELL TYPE: OIL <input checked="" type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/>					
(IF "GAS,") PRODUCTION <input checked="" type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>					
LOCATION: ELEVATION 988' WATER SHED EAST FORK OF TWELVEPOLE CREEK					
DISTRICT HART'S CREEK COUNTY LINCOLN					
QUADRANGLE WILSONDALE, WV 7.5'					
SURFACE OWNER SHAROL MAYNARD ACREAGE --					
OIL & GAS ROYALTY OWNER CHESAPEAKE APPALACHIA, L.L.C. LEASE ACREAGE 03/28/2014					
LEASE NO. _____ FEE LAND _____					
PROPOSED WORK: DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____					
PLUG AND ABANDON <input checked="" type="checkbox"/> CLEAN OUT AND REPLUG <input type="checkbox"/>					
TARGET FORMATION _____ ESTIMATED DEPTH _____					
WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT ERIC B. GILLESPIE					
ADDRESS P.O. BOX 18498, OKLAHOMA CITY, OK 73154-0498 ADDRESS CHESAPEAKE APPALACHIA, L.L.C. PO BOX 6070, CHARLESTON, WV 25362					

FORM WW-6

COUNTY NAME PERMIT