



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

March 27, 2014

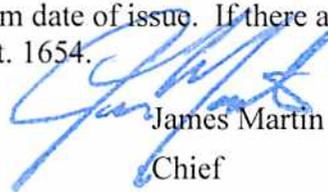
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-5900661, 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: 8719 (808719)
Farm Name: FERGUSON, THOMAS
API Well Number: 47-5900661
Permit Type: Plugging
Date Issued: 03/27/2014

Promoting a healthy environment.

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.

5900661 P

CK 5132 869
100⁰⁰

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

1) Date: 3/6/2014
2) Operator's Well No. 808719 P&A
3) API Well No. 47-059-00661

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

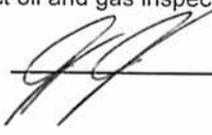
APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil Gas X Liquid injection Waste disposal
(Is Gas, Production X or Underground storage) Deep Shallow X
- 5) Location: Elevation 867' Watershed East Fork of Twelvepole Creek
District Harvey 2 County Mingo Quadrangle Trace, WV 7.5 643
- 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 Jeremy James Name Chesapeake Appalachia, L.L.C.
Address P.O. Box 147 Address P.O. Box 18496
Ona, WV 25545 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 3-17-14

Received

MAR 24 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

808719 P&A PROCEDURE

- 1) Prepare road and location, MIRU service rig
- 2) Pull 1 ½" and packer
NOTE: if unable to pull packer, pump 20 sack cement plug down 1 ½", displace with gel to 2000', cut 1 ½" at free-point (approximately 1740') and pull. Cut 3 ½" at free-point (approximately 1725') and pull. Proceed to step #6
- 3) Run W.S. to 2695', load hole with gel
- 4) Spot 100' cement plug 2695'-2595', pull W.S.
- 5) Cut 3 ½" at free-point (approximately 1725') and pull
- 6) Run W.S. to 1725', load hole with gel
- 7) Spot 100' cement plug 1725'-1625', pull W.S. to 1575'
- 8) Spot 100' cement plug 1575'-1475', pull W.S. to 1400'
- 9) Spot 100' cement plug 1400'-1300', pull W.S.
- 10) RIH with tools to check top of plug (If TOC is below 1325', then reset plug)
- 11) Cut 7" at free-point (approximately 770') and pull
- 12) Run W.S. to 770', load hole with gel
- 13) Spot 150' cement plug 770'-620', pull W.S.
- 14) Attempt to pull 8 5/8"
 - A) If successful:
 - a) Run W.S. to 425', load hole with gel
 - b) Spot 100' cement plug 425'-325'
 - c) Proceed to step #15
 - B) If unsuccessful:
 - a) Run W.S. to 400'
 - b) Spot 100' cement plug 400'-300', pull W.S.
 - c) Cut 8 5/8" at free-point (approximately 180') and pull
 - d) Proceed to step #15
- 15) Pull or run W.S. to 220'
- 16) Spot 220' cement plug 220' – surface
- 17) Pull W.S. and top off with cement
- 18) Erect monument and reclaim as prescribed by law



Received

MAR 24 2014

5900661P



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

B

Quadrangle Holden

WELL RECORD

Permit No. MIN - 661

Oil or Gas Well Gas

Company United Fuel Gas Casing and Tubing Used in Drilling Left in Well Packers
Address P.O. Box 1273 - Charleston 25, W. Va.
Farm United Fuel Gas Co. Min. Tr. #1 Acres 526.09
Location (waters) East Fork of 12 Pole Creek
Well No. 8719 Elev. 859.82
District Harvey County Mingo
Mineral rights are owned by United Fuel Gas Co. Min. Tr. #1 - P.O. Box 1273, Charleston 25, W. Va.
Drilling commenced May 12, 1960
Drilling completed July 30, 1960
Date Shot NOT SHOT
Open Flow 12 /10ths Water in 3 Inch
Volume 417 /10ths Merc. in 48 Inch
Rock Pressure 417 lbs. 48 hrs.
Oil 417 bbls., 1st 24 hrs.
WELL ACIDIZED
WELL FRACTURED

RESULT AFTER TREATMENT
ROCK PRESSURE AFTER TREATMENT
Fresh Water _____ Feet Salt Water _____ Feet

Table with 8 columns: Formation, Color, Hard or Soft, Top, Bottom, Oil, Gas or Water, Depth, Remarks. Rows include Surface, Sand, Slate, Broken Sand, Coal, Sand, Slate, Salt Sand, Maxon Sand, Little Lime, Pencil Cave, Big Lime, Red Injun, Gray Injun, Black Shell, Slate and S, Brown Shal, Berea Sand, Gray Shale.



Total Depth (over) 2835'

Received MAR 24 2014

5900661P

WW4-A
Revised
2/01

1) Date: 3/6/2014
2) Operator's Well No. 808719 P&A
3) API Well No. 47-059-00661

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 Thomas Ferguson
Address Rt 2, Box 4040
Dingess, WV 25671

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Jeremy James
Address P.O. Box 147
Ona, WV 25545

Telephone 304-951-2956

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 _____

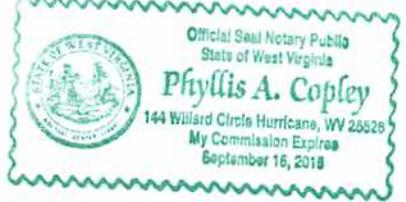
Coal Lessee with Declaration
(c) Name Rockspring Development, Inc.
Address 400 Patterson Lane
Charleston, WV 25311

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.

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

RECEIVED
Office of Oil and Gas

Subscribed and sworn before me this 6th day of March the year of 2014
Phyllis A. Copley Notary Public
My Commission Expires September 16, 2018

MAR 07 2014
WV Department of
Environmental Protection

Well 808719
API 47-59-0066LP

7012 1640 0000 0167 9697

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
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For delivery information visit our website at www.usps.com
DINGESS WV 25671

Postage	\$ 1.40	0523
Certified Fee	\$3.30	01
Return Receipt Fee (Endorsement Required)	\$2.70	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.40	

Sent To: **808719 P&A (Surface & Access Road)**
Thomas Ferguson
Rt 2, Box 4040
Dingess, WV 25671

PS Form 38



7012 1640 0000 0167 9611

U.S. Postal Service™
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For delivery information visit our website at www.usps.com
BLUEFIELD WV 24701

Postage	\$ 1.82	0523
Certified Fee	\$3.30	01
Return Receipt Fee (Endorsement Required)	\$2.70	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.82	

Sent To: **808719 P&A and 502016 P&A**
Pocahontas Land Corp.
800 Princeton Avenue
Bluefield, WV 24701

PS Form 38



7012 1640 0000 0167 9901

U.S. Postal Service™
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For delivery information visit our website at www.usps.com
CHARLESTON WV 25311

Postage	\$ 1.82	0523
Certified Fee	\$3.30	01
Return Receipt Fee (Endorsement Required)	\$2.70	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.82	

Sent To: **808719 P&A and 502016 P&A**
Rockspring Development, Inc.
400 Patterson Lane
Charleston, WV 25311

PS Form 38



7012 1640 0000 0167 9604

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DUNLOW WV 25511

Postage	\$ 1.82	0523
Certified Fee	\$3.30	01
Return Receipt Fee (Endorsement Required)	\$2.70	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.82	

Sent To: **808719 P&A and 502016 P&A**
Argus Energy W.V. Department of
Environmental Protection
9104 Twelve Pole Creek Road
Dunlow, WV 25511

PS Form 38



59 00661P

Rev. 02/01

API Number 47-059-00661
Operator's Well No. 808719 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 East Fork of Twelvepole Creek Quadrangle Trace, WV 7.5'

Elevation 867' County Mingo District Harvey

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

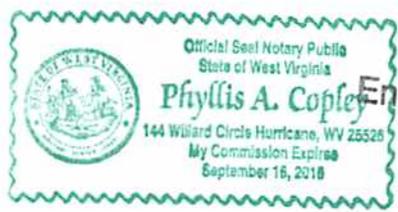
Company Official Title Manager - Operations, Appalachia South

Subscribed and sworn before me this 6th day of March, 2014.

Phyllis A. Copley

My Commission Expires September 16, 2018

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Office of Oil and Gas
MAR 07 2014



WV Department of Environmental Protection

Attachment #1

API #: 47-059-00661
 Operator's Well No. 508719 P&A

LEGEND

Property Boundary	Diversion
Road	Spring
Existing Fence	Wet Spot
Planned Fence	Drain Pipe with size in inches
Stream	Waterway
Open Ditch	Cross Drain
Rock	Artificial Filter Strip
North	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	

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: 3-18-14

Field Reviewed? Yes No

Received

MAR 24 2014

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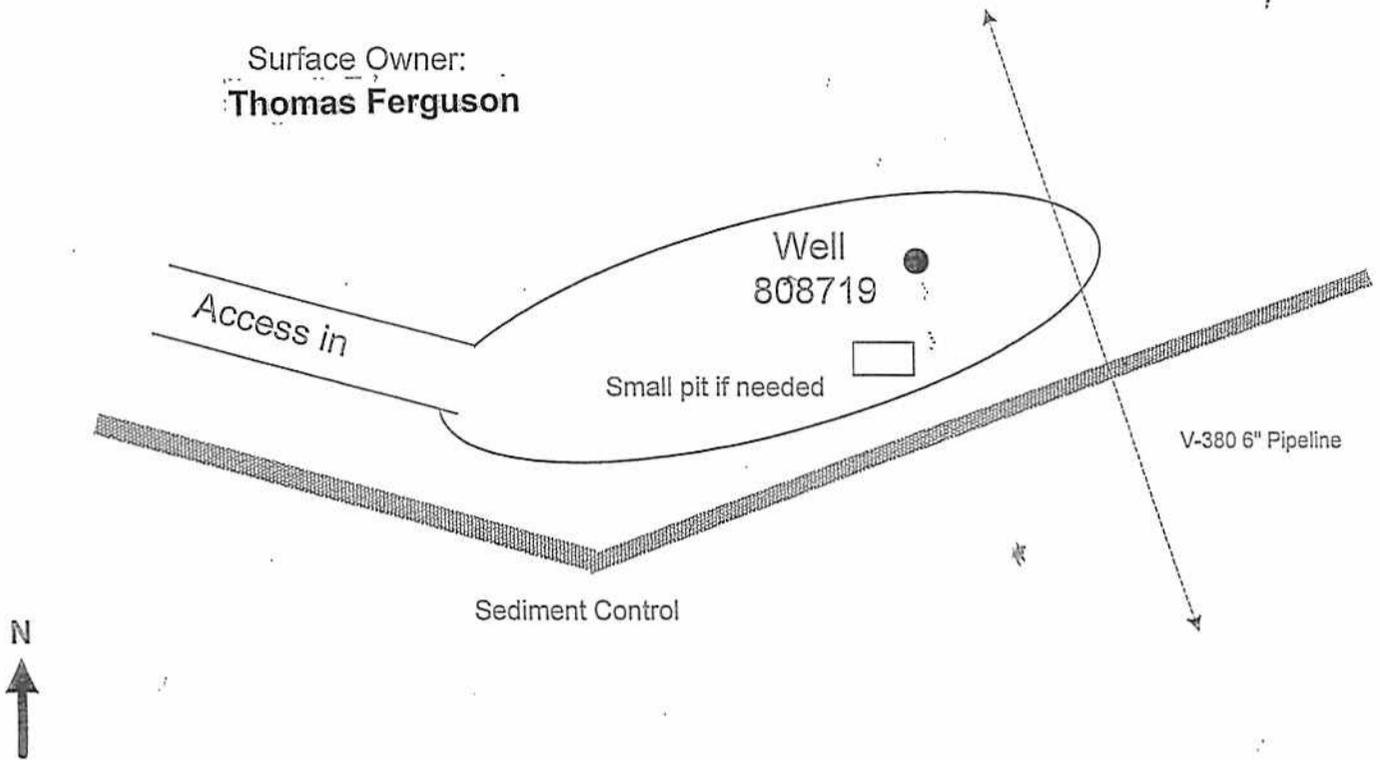
CHESAPEAKE APPALACHIA, L.L.C.

Diagram of Well 808719

API 47-059-00661

Field Office - Branchland

County - Mingo



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: 2-14-2014

No Scale

Received

MAR 24 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

CHESAPEAKE APPALACHIA, L.L.C.

5900661P

Topographical Map of Access and

Well Location 808719

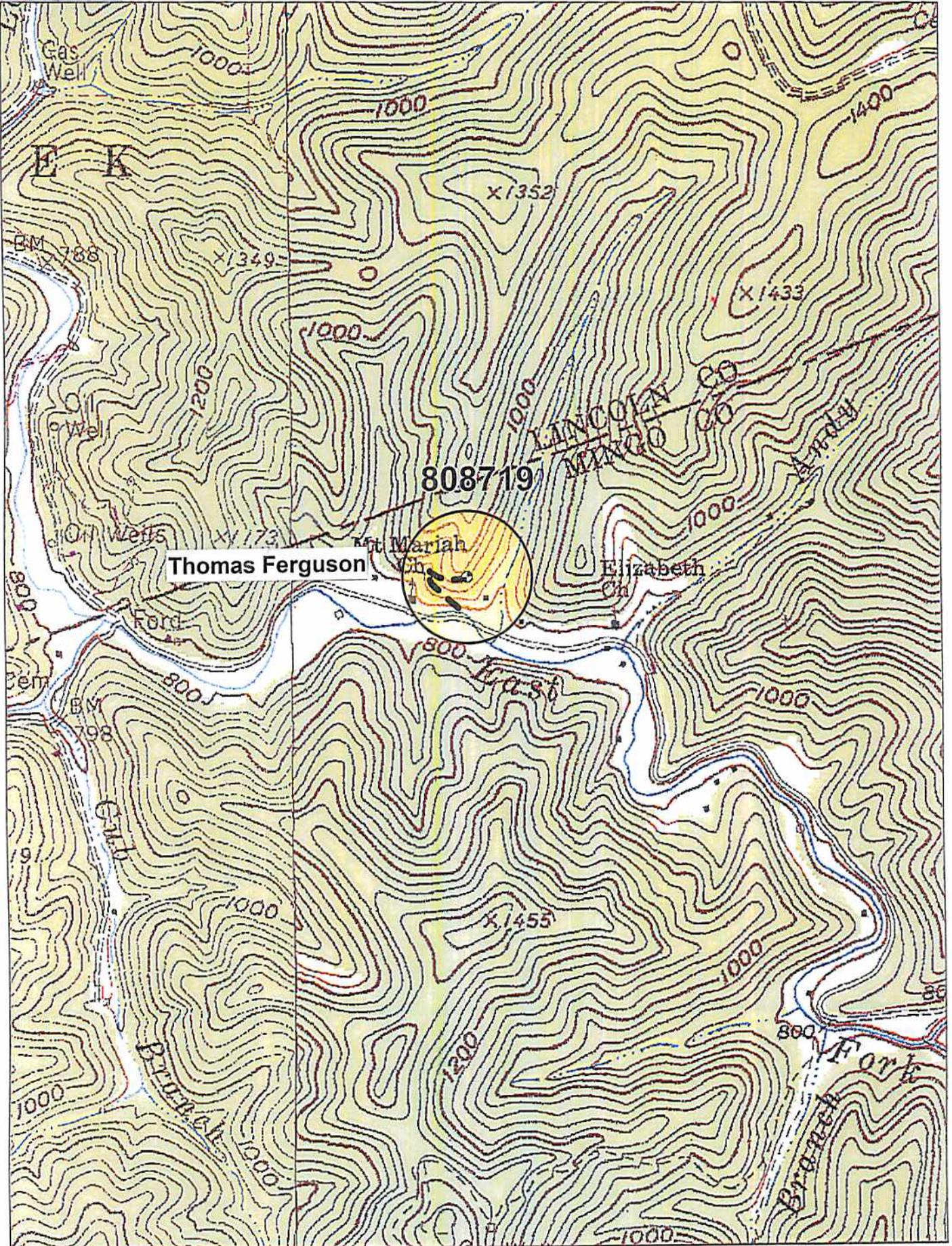
API 47-059-00661

Field Office - Branchland

County - Mingo

DELORME

XMap® 7



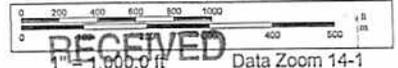
Data use subject to license.

© DeLorme, XMap® 7.

www.delorme.com



Scale 1 : 12,000

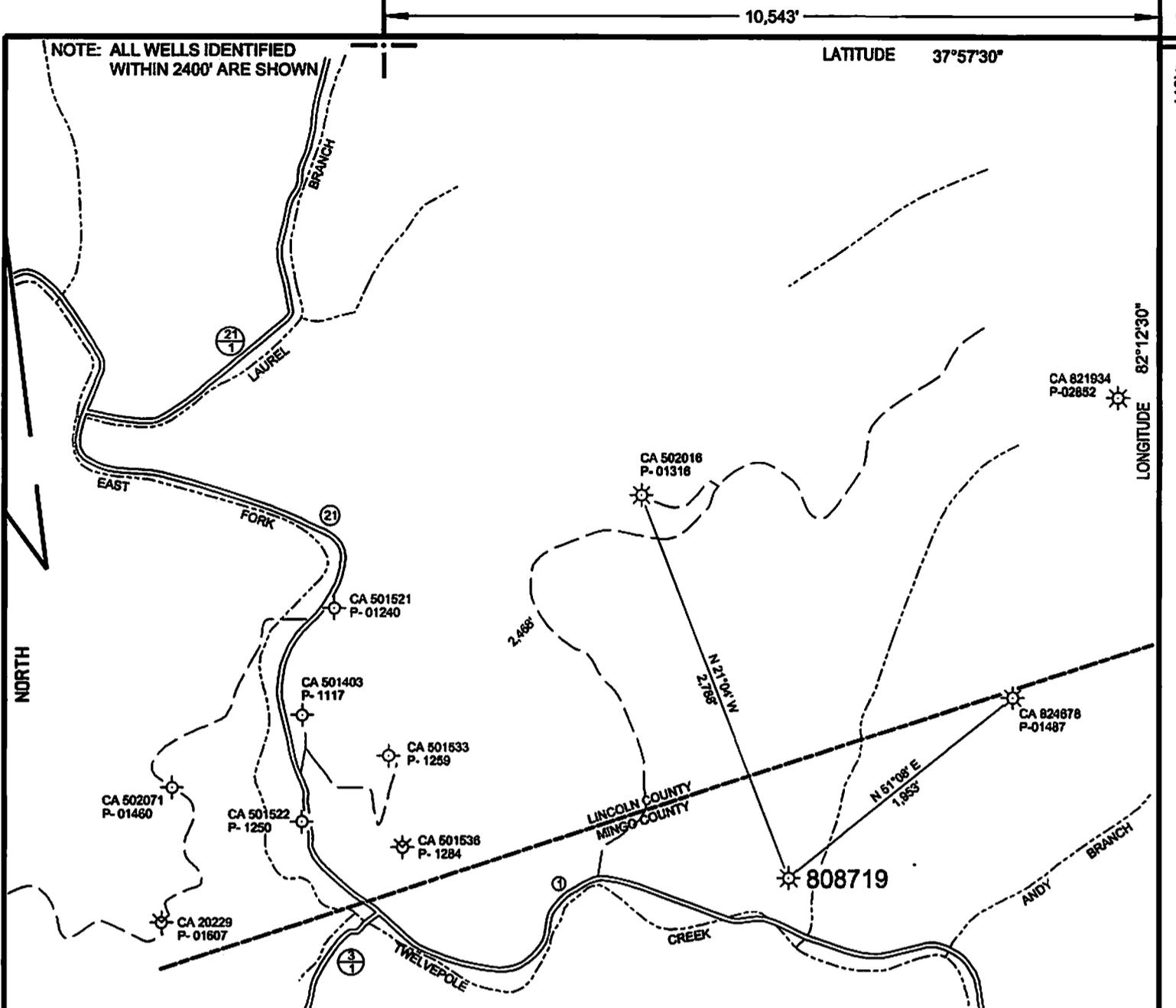


Office of Oil and Gas

MAR 07 2014

Chesapeake Energy Corporation - Eastern Division
P.O. Box 579 • 8165 Court Avenue • Hamlin, WV 25523
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WV Department of
Environmental Protection

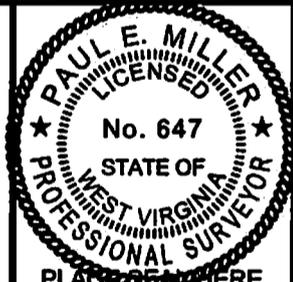


WELL SITE
STATE PLANE WV SOUTH ZONE NAD 1927 N - 351,228.475 : E - 1,641,087.001
LATITUDE: (N) 37.9579622° LONGITUDE: (W) 82.2448968°
UTM NAD83 17 - 84W TO 78W, METERS N - 4,201,892.216 : E - 390,649.096

WELLSPOT NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
FILE NO. <u>808719P&A.DGN</u>
DRAWING NO. <u>808719P&A</u>
SCALE <u>1" = 1000'</u>
MINIMUM DEGREE OF ACCURACY <u>1:200</u>
PROVEN SOURCE OF ELEVATION <u>MAPPING GRADE GPS</u>

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 <u>FEBRUARY 5</u> , 20 <u>14</u> OPERATOR'S WELL NO. <u>808719</u> API WELL NO. <u>47</u> <u>059</u> <u>00661 P</u> STATE COUNTY PERMIT
WELL TYPE: OIL ___ GAS <u>X</u> LIQUID INJECTION ___ WASTE DISPOSAL ___ (IF "GAS,") PRODUCTION <u>X</u> STORAGE ___ DEEP ___ SHALLOW <u>X</u>		
LOCATION: ELEVATION <u>887'</u> WATER SHED <u>EAST FORK OF TWELVEPOLE CREEK</u> DISTRICT <u>HARVEY</u> COUNTY <u>MINGO</u> QUADRANGLE <u>TRACE, WV 7.5'</u>		COUNTY NAME
SURFACE OWNER <u>THOMAS FERGUSON</u> ACREAGE <u>3</u> OIL & GAS ROYALTY OWNER <u>CHESAPEAKE APPALACHIA, L.L.C.</u> LEASE ACREAGE <u>-</u> LEASE NO. <u>FEELAND</u>		PERMIT
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 <u>X</u> CLEAN OUT AND REPLUG ___ TARGET FORMATION _____ ESTIMATED DEPTH _____ WELL OPERATOR <u>CHESAPEAKE APPALACHIA, L.L.C.</u> DESIGNATED AGENT <u>ERIC B. GILLESPIE</u> ADDRESS <u>P.O. BOX 18496, OKLAHOMA CITY, OK 73154-0496</u> ADDRESS <u>CHESAPEAKE APPALACHIA, L.L.C. PO BOX 6070, CHARLESTON, WV 25362</u>		

FORM WW-6

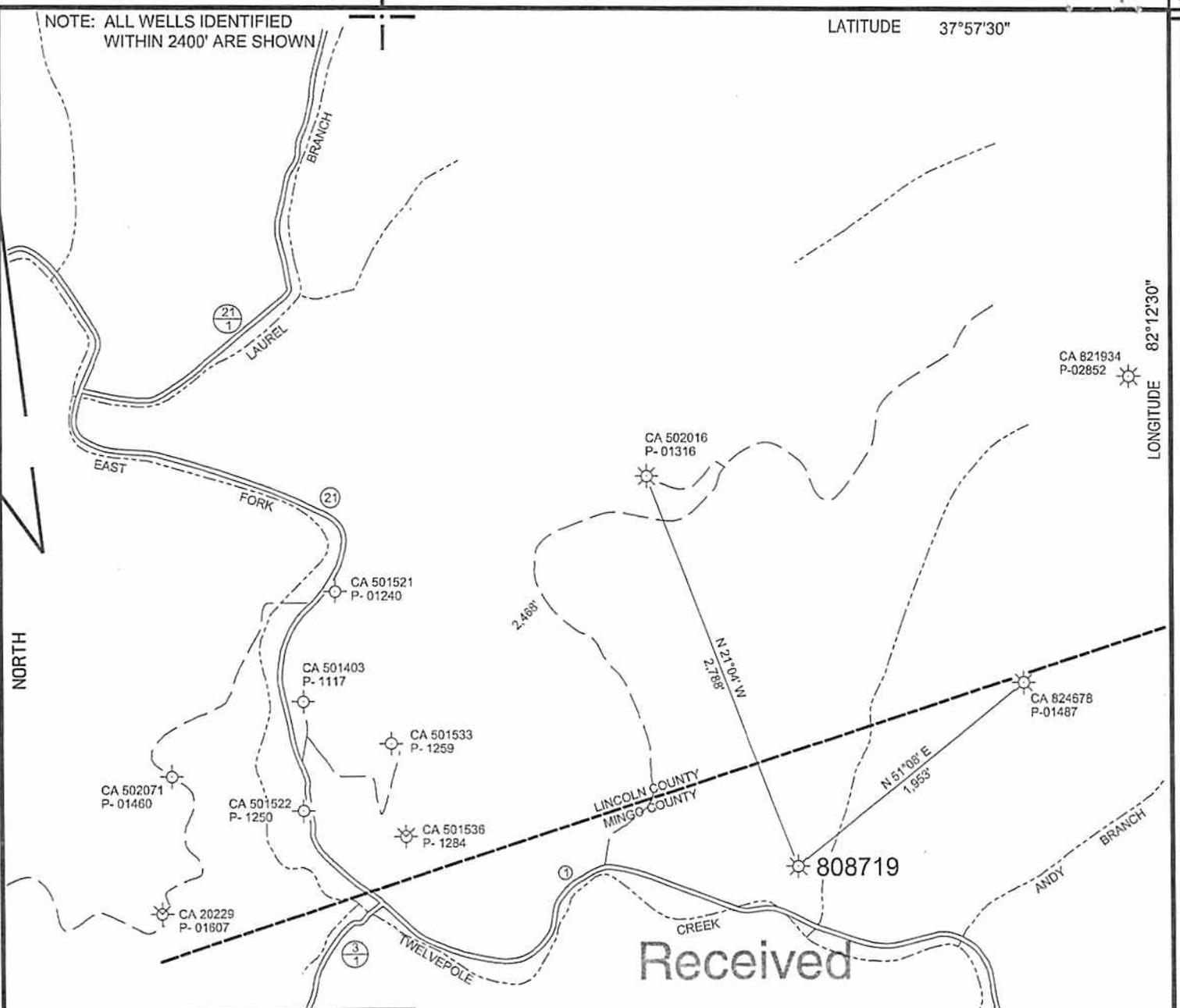
5900661P

10,343

NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

LATITUDE 37°57'30"

LONGITUDE 82°12'30"



Received
MAR 24 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

WELLSPOT

NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

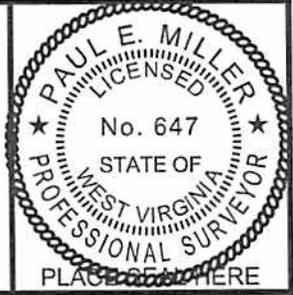
WELL SITE	
STATE PLANE WV SOUTH ZONE NAD 1927 N - 351,228.475 : E - 1,641,087.001	
LATITUDE: (N) 37.9579622° LONGITUDE: (W) 82.2448968°	
UTM NAD83 17 - 84W TO 78W, METERS N - 4,201,892.216 : E - 390,649.096	

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

FILE NO.	808719P&A.DGN
DRAWING NO.	808719P&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 FEBRUARY 5, 2014
OPERATOR'S WELL NO. 808719
API WELL NO. 47 059 00661P
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 867' WATER SHED EAST FORK OF TWELVEPOLE CREEK
DISTRICT HARVEY COUNTY MINGO
QUADRANGLE TRACE, WV 7.5'
SURFACE OWNER THOMAS FERGUSON ACREAGE 3
OIL & GAS ROYALTY OWNER CHESAPEAKE APPALACHIA, L.L.C. LEASE ACREAGE -
LEASE NO. FFF 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