



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

January 16, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4300539, 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: 5389
Farm Name: HUNT DEV & GAS CO.
API Well Number: 47-4300539
Permit Type: Plugging
Date Issued: 01/16/2015

Promoting a healthy environment.

01/16/2015

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

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.

4300539P

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

1) Date: 11/12/2014
2) Operator's Well No. 805389 P&A
3) API Well No. 47-043-00539

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 1064' Watershed Laurel Branch of Guyandotte River
District Laurel Hill County Lincoln Quadrangle Branchland, WV 7.5'

6) Well Operator Chesapeake Appalachia, L.L.C.
Address P.O. Box 18496
Oklahoma City, OK 73154-0496

7) Designated Agent Erie B. Gillespie Jessica Greenhouse
Address P.O. Box 6070
Charleston, WV 25362

8) Oil and Gas Inspector to be notified
Name Ralph Triplett
Address 5539 McClellan Highway
Branchland, WV 25506

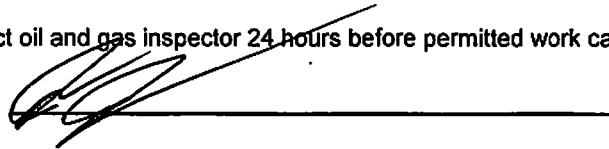
9) Plugging Contractor
Name Chesapeake Appalachia, L.L.C.
Address P.O. Box 18496
Oklahoma City, OK 73154-0496

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 11-13-14

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01/16/2015

API Number: 47-043-00539

805389 P&A Procedure

- 1) Prepare road and location, MIRU Service Rig
- 2) RIH with tools to check TD at approximately 1850'
- 3) Run W.S. to 1850', spot gel
- 4) Spot 100' cement plug 1850'-1750', pull W.S.
- 5) Cut 3 1/2" at free-point (approximately 1600') and pull
- 6) Run W.S. to 1600' (1650' if possible), load hole with gel
- 7) Spot 100' cement plug 1600'-1500' (deeper if possible), pull W.S.
- 8) Cut 6 5/8" at free-point (approximately 875') and pull
- 9) Run W.S. to 875', load hole with gel
- 10) Spot 150' cement plug 875'-725', pull W.S.
- 11) Attempt to pull 8 1/4"
 - A) If successful
 - a) Run W.S. to 325', load hole with gel
 - b) Spot 100' cement plug 325'-225'
 - c) Proceed to step #12
 - B) If unsuccessful
 - a) Rip or perforate holes at approximately 270' and 240'
 - b) Run W.S. to 325'
 - c) Spot 125' cement plug 325'-200', pull W.S.
 - d) Cut 8 1/4" at free-point (approximately 125') and pull
 - e) Proceed to step #12
- 12) Pull or run W.S. to 125'
- 13) Spot 125' cement plug 125'-surface
- 14) Pull W.S. and top off with cement
- 15) Erect monument and reclaim as prescribed by law



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Well 805389 PWA
API 47-043-00539

WELL RECORD

Permit No. LIN - 539

Oil or Gas Well Gas
(KIND)

Company United Fuel Gas Company
Address Box 1273, Charleston 25, W. Va.
Farm Huntington Dev. & Gas Co. Acres 20,590
Location (waters) Laurel Hill Branch
Well No. 5389 Elev. 1100' Bar.
District Laurel Hill County Lincoln
The surface of tract is owned in fee by Huntington Dev. & Gas Company Address Charleston, W. Va.
Mineral rights are owned by Huntington Dev. & Gas Co. Address Charleston, W. Va.
Drilling commenced 10-12-44
Drilling completed 11-14-44
Date Shot Not Shot From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 260,000 Cu. Ft.
Rock Pressure 350 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
18			
13			
10	20'	20'	Size of
8 1/4	314'	314'	
6 5/8	1625'	1625'	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 81 FEET 48 INCHES
253 FEET 24 INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface			0	10			
Sand			10	41			
Slate			41	50			
Sand			50	81			
Coal			81	85			
Slate			85	102			
Sand			102	165			
Slate			165	190			
Sand			190	205			
Slate			205	210			
Sand			210	220			
Slate			220	221			
Sand			221	253			
Coal			253	255			
Slate			255	275			
Sand			275	390			
Slate			390	412			
Sand			412	584			
Slate			584	590			
Sand			590	610			
Slate & Shells			610	864			
Salt Sand			864	1310			
Slate & Shells			1310	1410			
Sand			1410	1461			
Slate			1461	1470			
Red Rock			1470	1472			
Slate & Shells			1472	1510			
Red Rock			1510	1515			
Slate			1515	1523			
Maxon Sand			1523	1585			
Lime			1585	1602			
Slate			1602	1611			
Big Lime			1611	1810			
Big Injun			1810	1865	Gas	1825	Injun gas
Slate			1865	1890	Gas	1858	Injun gas
Total Depth			1890'				



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4300539P

WW4-A
Revised
2/01

1) Date: 11/12/2014
2) Operator's Well No. 805389 P&A
3) API Well No. 47-043-00539

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 Heartwood Forestland Group ✓
Address C/O Craig Kaderavak
19045 Stone Mountain Road
Abingdon, VA 24210

(b) Name Please see additional
Address sheet for access road
surface owners

(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 Pocahontas Land Corporation ✓
Address 800 Princeton Avenue
Bluefield, WV 24701

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: Completion Superintendent, Appalachia South
Address: P.O. Box 18496
Oklahoma City, OK 73154-0496
Telephone: 405-935-4073

Subscribed and sworn before me this 12th day of November the year of 2014
Phyllis A. Copley Notary Public
My Commission Expires September 16, 2018

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01/16/2015

4300539 A

Well 805389 P&A
API 47-043-00539

Access Road Owners

Freddie Brewster ✓
P.O. Box 332
Ranger, WV 25557

Anthony Sias ✓
380 Vanatters Creek
Ranger, WV 25557

Chris Baker ✓
Rt. 2 Box 490 McComas Road
Salt Rock, WV 25559

Martin Land Company ✓
P.O. Box 1133
Inez, KY 41224

Kenneth Baker ✓
165 N. Morning Dove Drive
Fayetteville, GA 30215

W.C. & Florence Webb ✓
13 Guyan River Road
Ranger, WV 25557

Lawrence Johnson Jr. ✓
P.O. Box 406
Ranger, WV 25557

David Elkins ✓
4611 Pricer Creek Road
Huntington, WV 25701

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7010 3090 0002 9275 3172

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RANGER WV 25557

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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	
Total Postage & Fees	\$ 7.40	11/12/2014

Sent To: **805389 P&A**
 Street, Apt. or PO Box: **W.C. & Florence Webb**
 City, State: **13 Guyan River Road**
Ranger, WV 25557

7012 3460 0000 4499 3422

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Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 7.40	11/12/2014

Sent To: **805389 P&A**
 Street, Apt. or PO Box: **Freddie Brewster**
 City, State: **P.O. Box 332**
Ranger, WV 25557

7010 3090 0002 9275 3196

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Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 7.40	11/12/2014

Sent To: **805389 P&A**
 Street, Apt. or PO Box: **Heartwood Forestland Grop**
 City, State, Zi: **C/O Craig Kaderavek**
19045 Stone Mountain Road
Abingdon, VA 24210

7012 3460 0000 4499 3392

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Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 7.40	11/12/2014

Sent To: **805389 P&A**
 Street, or PO B: **Anthony Sias**
 City, Sta: **380 Vanatters Creek**
Ranger, WV 25557

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7012 3090 0002 9275 3189

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BLUEFIELD WV 24701

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Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.40	11/12/2014

Sent To: **805389 P&A**
Pocahontas Land Corp.
800 Princeton Avenue
Bluefield, WV 24701

PS Form 3800

7012 3460 0000 4499 3415

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SALT ROCK WV 25559

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Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.40	11/12/2014

Sent To: **805389 P&A**
Chris Baker
Rt. 2 Box 490 McComas Road
Salt Rock, WV 25559

PS Form 3800

7012 3460 0000 4499 3408

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INEZ KY 41224

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Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.40	11/12/2014

Sent To: **805389 P&A**
Martin Land Company
P.O. Box 1133
Inez, KY 41224

PS Form 3800

7012 3460 0000 4499 3385

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RANGER WV 25557

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Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.40	11/12/2014

Sent To: **805389 P&A**
Lawrence Johnson Jr.
P.O. Box 406
Ranger, WV 25557

PS Form 3800

7012 3460 0000 4499 3378

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FAYETTEVILLE GA 30215

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Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.40	11/12/2014

Sent To: **805389 P&A**
Kenneth Baker
165 N. Morning Dove Drive
Fayetteville, GA 30215

PS Form 3800

7012 3460 0000 4499 3361

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HUNTINGTON WV 25701

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Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.40	11/12/2014

Sent To: **805389 P&A**
David Elkins
4611 Pricer Creek Road
Huntington, WV 25701

PS Form 3800

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Form WW-9
Rev. 02/01

API Number 47-043-00539
Operator's Well No. 805389 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 Laurel Branch of Guyandotte River Quadrangle Branchland, WV 7.5'
Elevation 1064' County Lincoln District Laurel Hill

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 *Robert E. Schindler*

Company Official (Typed Name) Robert E. Schindler

Company Official Title Completion Superintendent, Appalachia South

Subscribed and sworn before me this 12th day of November, 2014.

Phyllis A. Copley Notary Public.

My Commission Expires September 16, 2018

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NOV 13 2014



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Attachment #1

API #: 47-043-00539
 Operator's Well No. 805389 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: 11-13-14

Field Reviewed? () Yes () No

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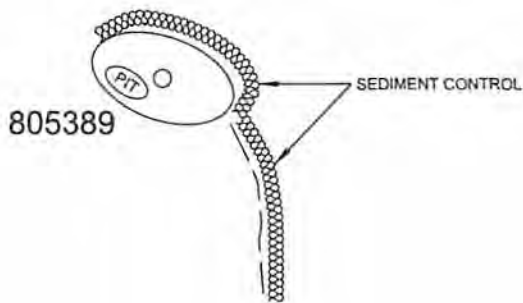
43 00539P

CHESAPEAKE APPALACHIA, L.L.C.

RECLAMATION DIAGRAM WELL LOCATION 805389

API 47-043-00539

LAUREL BRANCH



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.

824780 ☀

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CHESAPEAKE APPALACHIA, L.L.C.

TOPOGRAPHICAL MAP OF ACCESS AND
WELL LOCATION 805389

API 47-087-00539

LAUREL BRANCH

805389

Gas Well

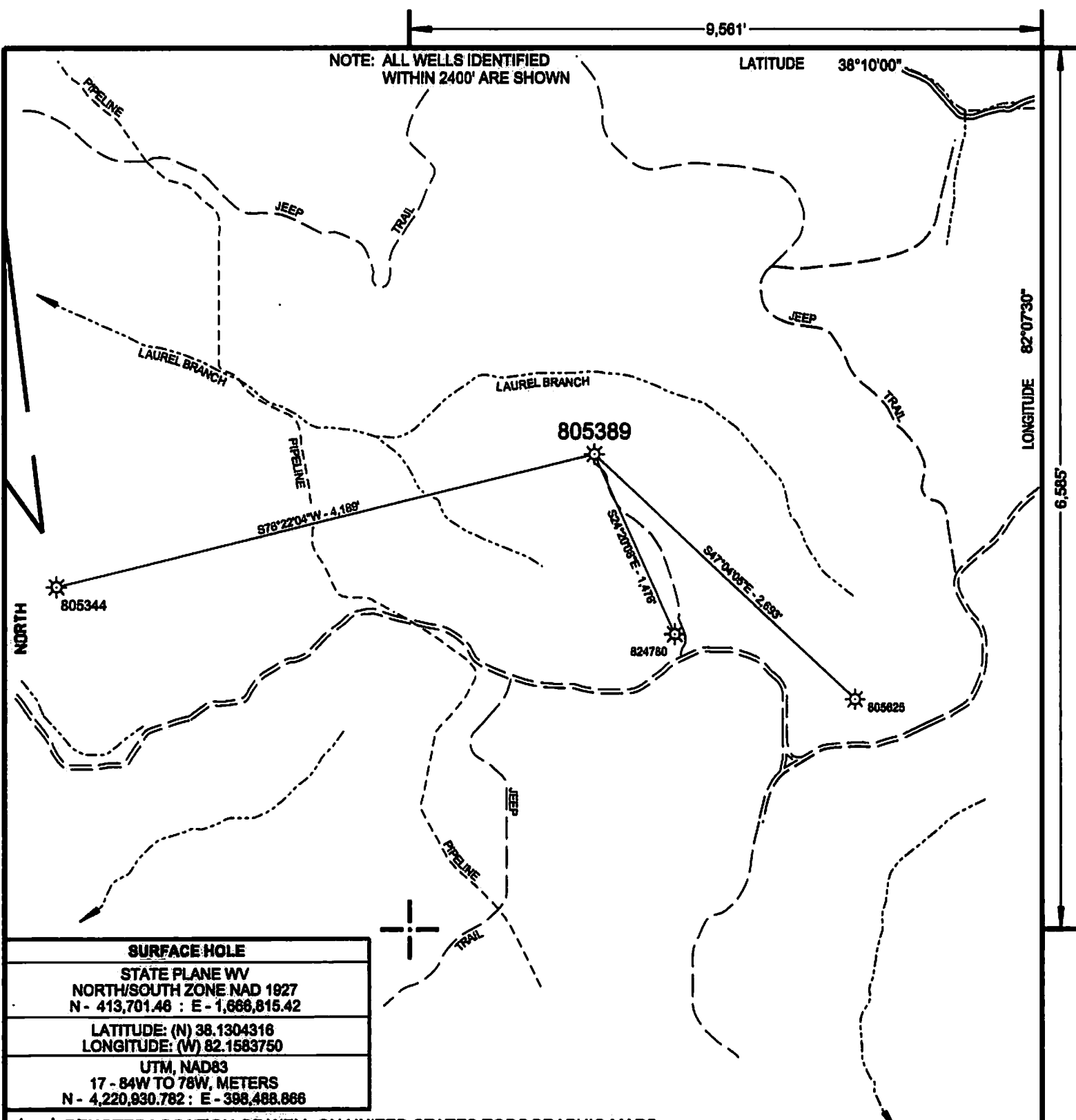
824780

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NOV 13 2014

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



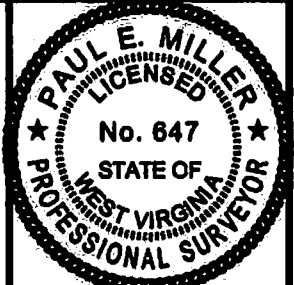
SURFACE HOLE
STATE PLANE WV NORTH/SOUTH ZONE NAD 1927 N - 413,701.46 : E - 1,666,815.42
LATITUDE: (N) 38.1304316 LONGITUDE: (W) 82.1583750
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,220,930.782 : E - 398,488.866

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

FILE NO. 805389 P&A DGN.
 DRAWING NO. 805389 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 OCTOBER 8, 2014
 OPERATOR'S WELL NO. 805389
 API WELL NO. _____

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

LOCATION: ELEVATION 1064' WATER SHED LAUREL BRANCH OF GUYANDOTTE RIVER
 DISTRICT LAUREL HILL COUNTY LINCOLN
 QUADRANGLE BRANCLAND, WV 7.5'

SURFACE OWNER HEARTWOOD FORESTLAND FUND, LLP ACREAGE -
 OIL & GAS ROYALTY OWNER _____ LEASE ACREAGE _____
 LEASE NO. _____

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 PO BOX 6070 CHARLESTON, WV 25362

FORM WW-6

COUNTY NAME
 PERMIT

01/16/2015