



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: 47-4300466, 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: 5344
Farm Name: BREWSTER, DORSEY & NELLIE
API Well Number: 47-4300466
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.

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

1) Date: 11/10/2014
2) Operator's Well No. 805344 P&A
3) API Well No. 47-043-00466

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 752' Watershed Laurel Branch of Guyandotte River
District Laurel Hill County Lincoln Quadrange Branchland, WV 7.5'
- 6) Well Operator Chesapeake Appalachia, L.L.C. 7) Designated Agent ~~Eric B. Gillespie~~ 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

Date 11-13-14

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805344 P&A Procedure

- 1) Prepare road and location, MIRU Service Rig
- 2) RIH to check TD at approximately 1575'
- 3) Run W.S. to 1550', load hole with gel
- 4) Spot 200' cement plug 1550'-1350', pull W.S. to 1000'
- 5) Spot 100' cement plug 1000'-900', pull W.S.
- 6) Cut 4 1/2" at free-point (approximately 630') and pull
- 7) Cut 6 5/8" at free-point (approximately 600') and pull
- 8) Run W.S. to 630', load hole with gel
- 9) Spot ~~150~~ cement plug 630'-~~480~~, pull W.S.
- 10) Attempt to pull 8 1/4" ^{450'}
 - A) If successful
 - a) Run W.S. to 350', spot gel
 - b) Spot 100' cement plug 350'-250'
 - c) Proceed to step 11
 - B) If unsuccessful
 - a) Run W.S. to 350'
 - b) Spot 100' cement plug 350'-250', pull W.S.
 - c) Cut 8 1/4" at free-point (approximately 125') and pull
 - d) Proceed to step 11
- 11) Pull or run W.S. to 125'
- 12) Spot 125' cement plug 125'-surface
- 13) Pull W.S. and top off with cement
- 14) Erect monument and reclaim as prescribed



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Smith



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Well 805344
API 47-043-00466F

WELL RECORD

Permit No. LTN-466

Oil or Gas Well GAS
(KIND)

Company UNITED FUEL GAS COMPANY
Address Box 1273, Charleston, W. Va.
Farm Huntington Development & Gas Co. 17,696
Location (waters) Laurel Hill Br. of Guyan River
Well No. 5344 Elev. 755
District Laurel Hill County Lincoln
The surface of tract is owned in fee by Huntington Development & Gas Co., Address Charleston, W. Va.
Mineral rights are owned by Same
Address _____
Drilling commenced February 2, 1944
Drilling completed March 29, 1944
Date Shot 3-31-44 From 2989 To 3286
With 1900# Gel.
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume Gas Well _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 360 feet _____ feet
Salt water 600 feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer _____
13			
10	13	13	Size of _____
8 1/4	286	286	
6 3/4	1315	1315	Depth set _____
5 3/16			
3		1828	Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT 61 FEET 60 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	19			
Slate			19	25			
Sand			25	50			
Slate			50	61			
Coal			61	66			
Slate			66	90			
White Sand			90	205			
Slate			205	230			
Sand			230	275			
Slate			275	280			
Sand			280	345			
Slate			345	392	Water	360	
Sand			392	445			
Slate			445	461			
Grey Sand			461	525			
Slate			525	553			
Sand			553	570			
Slate			570	575			
Salt Sand			575	1052	Water	600	Hole Full
Slate			1052	1057			
Maxon Sand			1057	1079			
Slate & Shells			1079	1195			
Red Rock			1195	1209			
Slate & Shells			1209	1232			
Red Rock			1232	1235			
Slate & Shells			1235	1260			
Little Lime			1260	1290			
Pencil Cave			1290	1300			
Big Lime			1300	1504	Gas	1428-1455	
Red Rock			1504	1538			
Injun			1538	1571	Gas	1538-1554	
Slate			1571	1818			
Hard Shells			1818	1828			
Slate & Shells			1828	2073			
Berea			2073	2096	Gas	2073-2080	
Blk. Lime Shells			2096	2110			
Slate			2110	2380			
Brown Slate			2380	2505			

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MAY 1944
WEST VIRGINIA
DEPARTMENT OF MINES

16681

01/16/2015

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
<i>Well 805344 47-043-0466 P₁</i>							
<u>Continued</u>							
Slate			2505	2987	Gas	3130-3265	
Brown Shale			2987	3281			
Slate			3281	3290			
Total Depth				3290			

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Date May 24, 194

APPROVED UNITED FUEL GAS COMPANY Owner

By *G.A. Cunningham*
(Title) 01/16/2015

Well 805344
API 47-043-00466P

RECEIVED
WV Division of
Environmental Protection
MAR 10 1995
Permitting
Office of Oil & Gas



State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date 03-06-95
Operator's
Well No. 805344
Farm Hunt. Dev. & Gas Co.
API No. 47-043-0466 PP&F

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas," Production / Underground Storage / Deep / Shallow)
LOCATION: Elevation: 755 Watershed Laurel Hill Branch
District: Laurel County Lincoln Quadrangle Branchland Hill

COMPANY Col. Nat. Res.
ADDRESS P.O. Box 6070, Chas. WV
DESIGNATED AGENT Joseph E. Campbell
ADDRESS Same
SURFACE OWNER Brewster, Dorsey
ADDRESS Ranger, W.V. 25557
MINERAL RIGHTS OWNER Col. Nat. Res.
ADDRESS Same
OIL AND GAS INSPECTOR FOR THIS WORK Richard Campbell ADDRESS Sumerco, W.V.
PERMIT ISSUED 07-01-95
DRILLING COMMENCED NA - PP&F
DRILLING COMPLETED NA
IF APPLICABLE: PLOTTING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON NA

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"	16	16	0
9 5/8			
8 5/8	290	290	0
7	1328	1328	0
5 1/2			
4 1/2		1649	147.4
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 1544-50 feet
Depth of completed well 1640 feet Rotary / Cable Tools
Water strata depth: Fresh feet; Salt feet see original log.
Coal seam depth: Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 1544-50 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 39.43 Mcf/d Oil: Final open flow 0 Bbl/d
Time of open flow between initial and final tests 336 hours
Static rock pressure 100 psig (surface measurement) after 336 hours shut in
(If applicable due to multiple completion--)
Second producing formation None Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

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LIN 0466 PP&F

01/16/2015

Well 805344
API 47-043-00466P

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

See the attached detail sheet for the permanent partial plugging and uphole completion of CNR well 805344 in the Big Injun Formation.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas

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(Attach separate sheets as necessary)

COLUMBIA NATURAL RESOURCES

Well Operator

By:

Date:

3/7/95

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ... encountered in the drilling of a well."

01/16/2015

Well 805344
API 47-043-00466P

043-0466-F

COLUMBIA
Natural Resources



Columbia Natural Resources - Well # 805344
A.P.I. # 047 - 043 - 0466PP & Frac
Original TD = 3290' - Formation = Shale

Objective: Log up-hole, plug back, frac Injun formation

JOB PROCEDURE

Moved in service rig on 11-12-93. Shot and pulled 1763' of 3½" tbg. Ran open-hole logs on 11-17-93. Set rock and clay plug from 1763' to 1744'. Moved rig out on 11-18-93. Waiting on Geology Dept. to evaluate logs.

Moved in service rig on 9-19-94. Checked TD at 1745'. Set cement plug with dump bailer from 1745' to 1665'. Perforated 7" csg. at State Inspectors request with a total of 10 holes at: 1050, 900, 700, 575, and 500 ft.

Ran 39 jts. of J55, 10.5#, range 3, 8rd thread, 4½" csg., with guide shoe, 6 centralizers, and latch down insert. Set insert at current PBD of 1640'. Set guide shoe at 1649'. Dowell cemented 4½" csg. with 55 sks. of 50/50 Pozmix and 50 sks. of RFC (yield = 1.28 and 1.54 cu. ft./ sk. respectively).

Ran bond log on 9-26-94. Top of cement was at 705'. Perforated 4½" csg. with 24 holes from 1544 - 1550'. Foam fractured Injun with 32,500# of 20/40 sand and 325 mscf of nitrogen. Well was dead after 24 hr. flow-back. Swabbed well on 9-29-94 and 9-30-94. There was not enough gas to gauge. Moved rig out on 10-3-94.

Moved in swab unit on 10-17-94. Open flow to start was 0 mcf/d. Moved out swab unit on 10-31-94. Final open flow was 39.43 mcf/d. 48 hr. rock pressure was 90# and 336 hr. rock pressure was 100#. Turned well in line on 12-14-94.

Compiled by:
John W. Wells 3-3-95

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Well 0466 PP&F

WW4-A
Revised
2/01

1) Date: 11/10/2014
2) Operator's Well No. 805344 P&A
3) API Well No. 47-043-00466

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

(b) Name Anthony Sias (access road)
Address 380 Vanatters Creek
Ranger, WV 25557

(c) Name Chris Baker (access road)
Address Rt. 2 Box 490 McComas Road
Salt Rock, WV 25559

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 _____

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 10th day of November the year of 2014
Phyllis A. Copley Notary Public

My Commission Expires September 16, 2018
Form WW-9

4300466P

7010 3090 0002 9275 3233

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BLUEFIELD WV 24701

Postage	\$ 1.61	0523
Certified Fee	3.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$7.61	11/12/2014

Sent To: **805344 P&A**
 Pocahontas Land Corp. ✓
 800 Princeton Avenue
 Bluefield, WV 24701

PS Form 3800

7010 3090 0002 9275 3226

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SALT ROCK WV 25559

Postage	\$ 1.61	0523
Certified Fee	3.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$7.61	11/12/2014

Sent To: **805344 P&A (access road)**
 Chris Baker ✓
 Rt. 2 Box 490 McComas Road
 Salt Rock, WV 25559

PS Form 3800

7010 3090 0002 9275 3219

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RANGER WV 25557

Postage	\$ 1.61	0523
Certified Fee	3.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$7.61	11/12/2014

Sent To: **805344 P&A (access road)**
 Anthony Sias ✓
 380 Vanatters Creek
 Ranger, WV 25557

PS Form 3800

7010 3090 0002 9275 3202

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RANGER WV 25557

Postage	\$ 1.61	0523
Certified Fee	3.30	01
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	0.00	
Total Postage & Fees	\$7.61	11/12/2014

Sent To: **805344 P&A (surface)**
 Freddie Brewster ✓
 P.O. Box 332
 Ranger, WV 25557

PS Form 3800

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4300466P

Rev. 02/01

API Number 47-043-00466
Operator's Well No. 805344 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 752' 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 *David Gocke*

Company Official (Typed Name) David Gocke

Company Official Title Manager - Operations, Appalachia South

Subscribed and sworn before me this 10th day of November, 2014.

Phyllis A. Copley Notary Public.

My Commission Expires September 16, 2018

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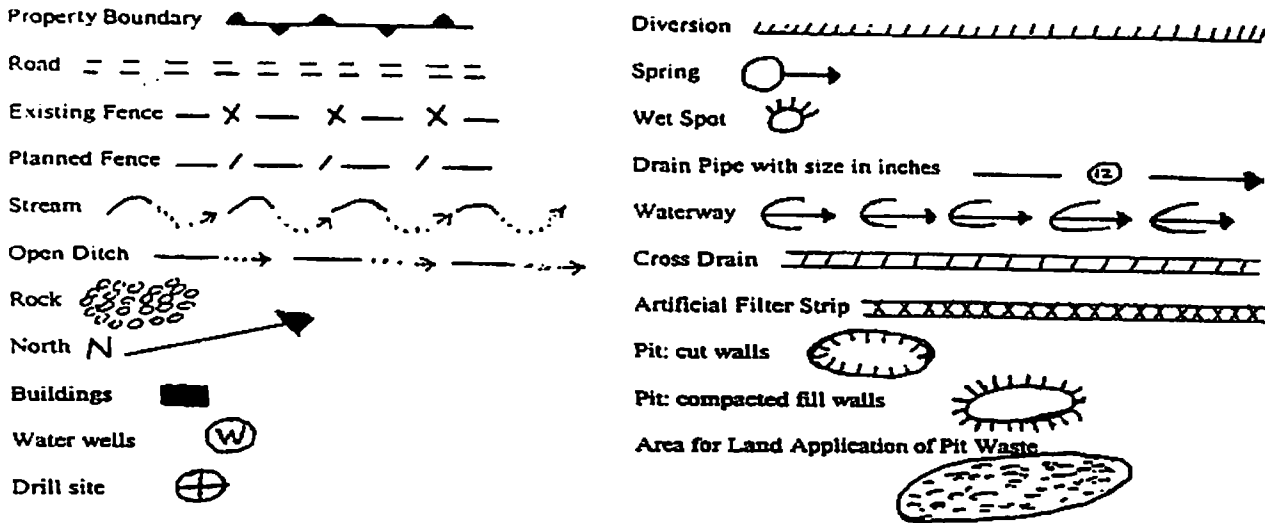


01/16/2015

Attachment #1

API #: 47-043-00466
 Operator's Well No. 805344 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

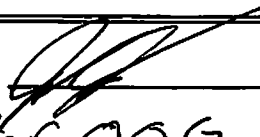
Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)

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: 

Title: inspector OOG

Date: 11-13-14

Field Reviewed? () Yes () No

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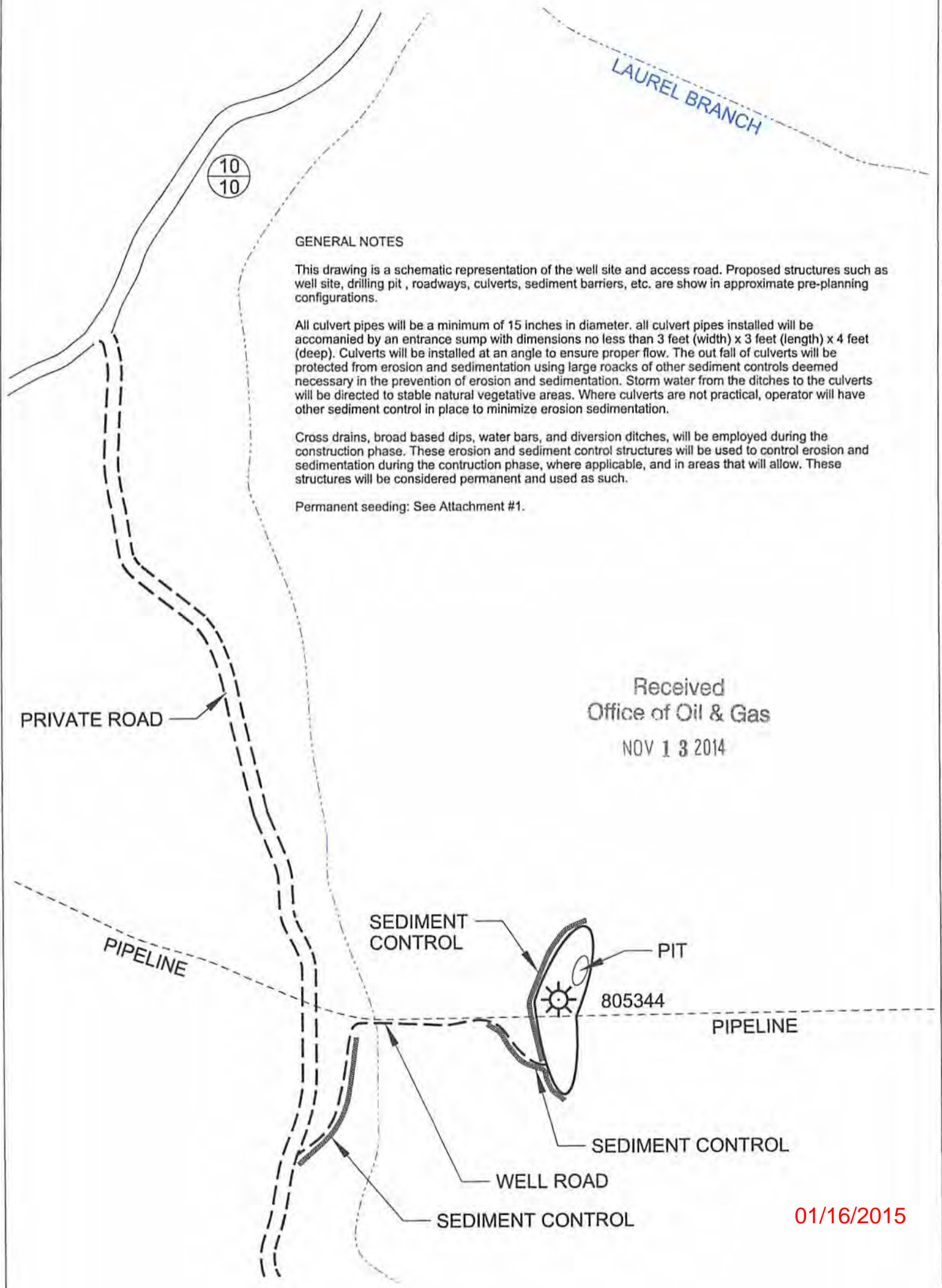
01/16/2015

4300466P

CHESAPEAKE APPALACHIA, L.L.C.

RECLAMATION DIAGRAM WELL LOCATION 801885

API 47-087-02118



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.

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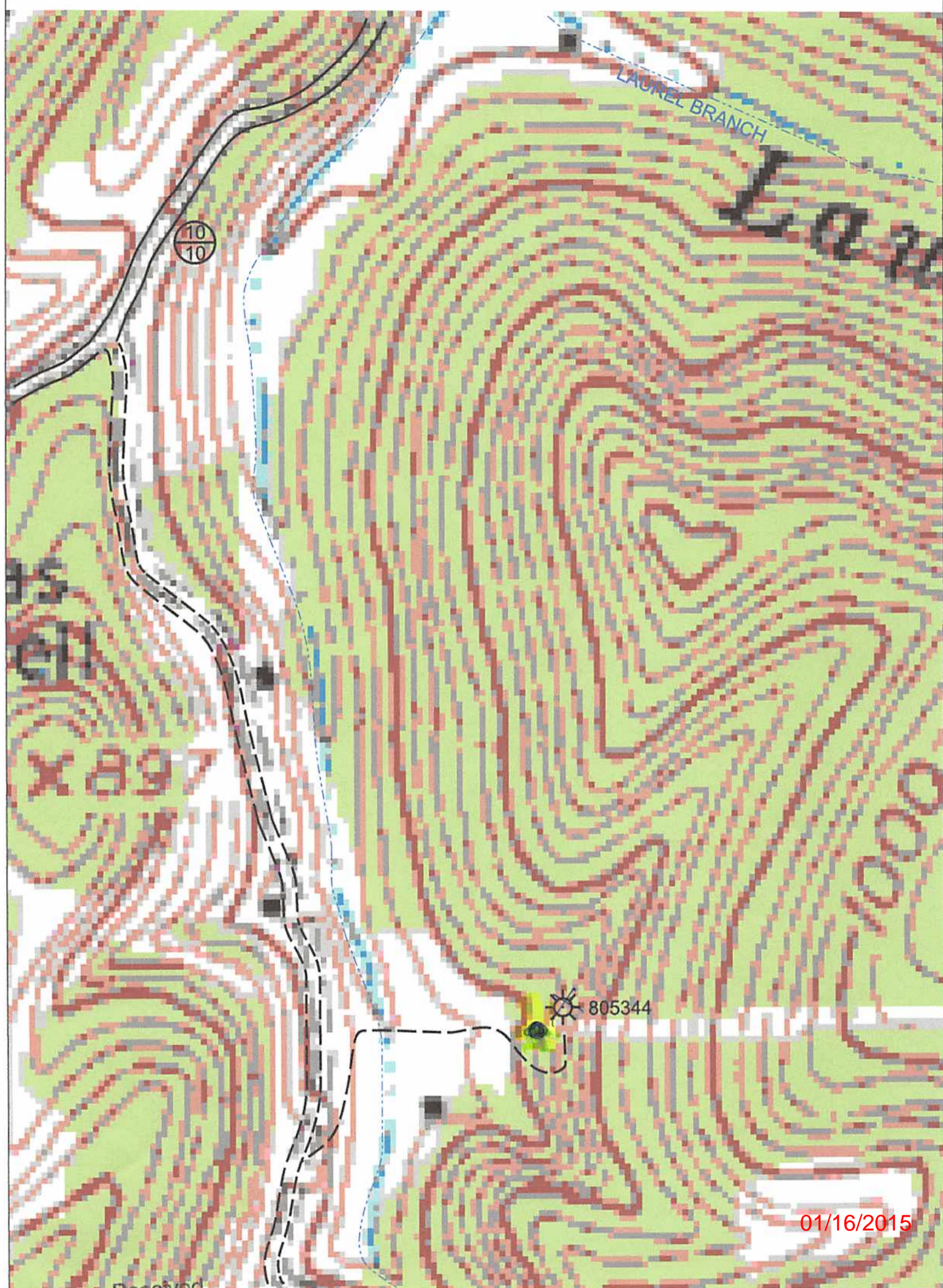
01/16/2015

4300 466 P

CHESAPEAKE APPALACHIA, L.L.C.

TOPOGRAPHICAL MAP OF ACCESS AND WELL LOCATION 805344

API 47-043-00466



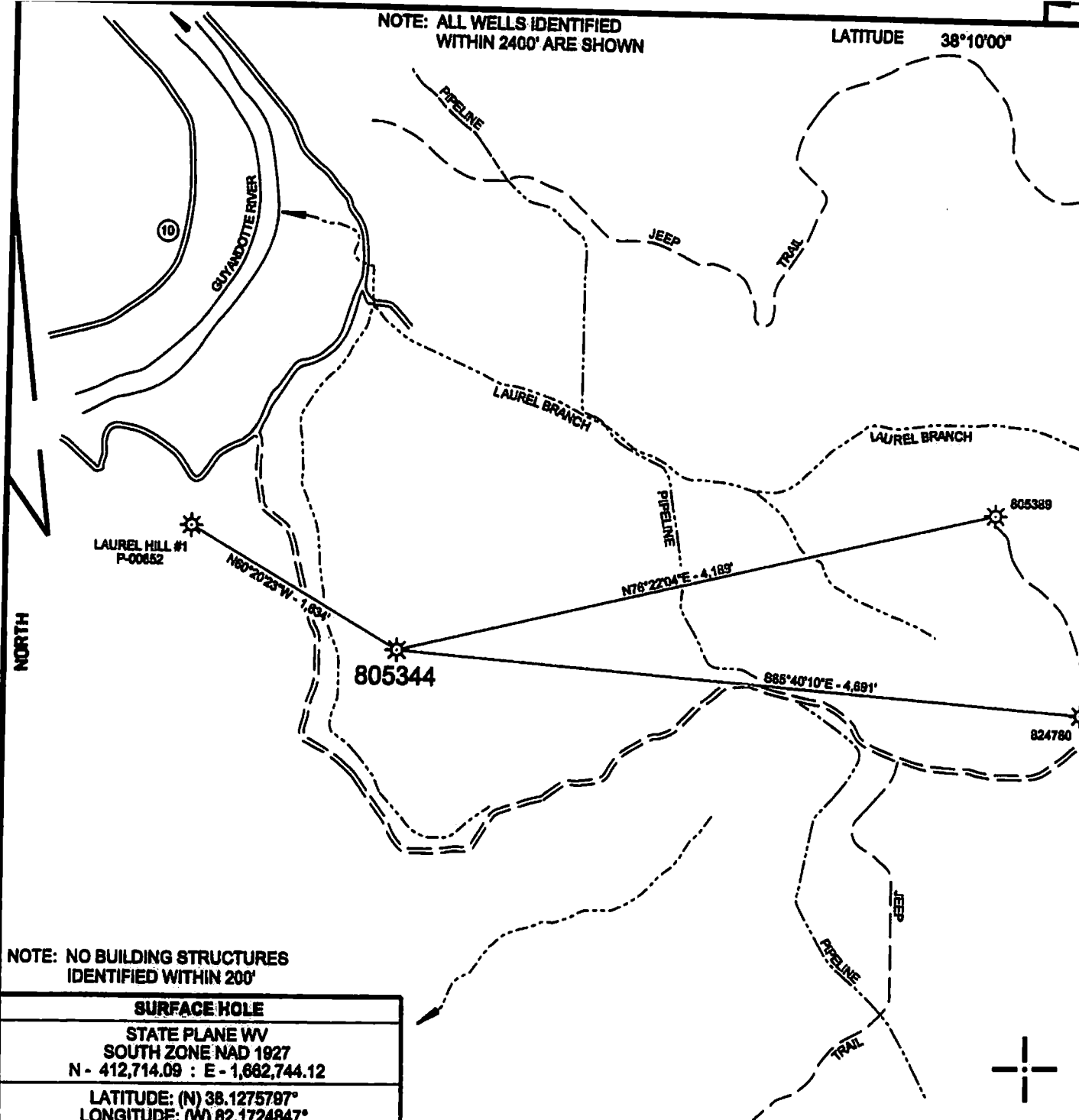
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CHESAPEAKE ENERGY CORPORATION - EASTERN DIVISION
P.O. BOX 579 - 8165 COURT AVENUE - HAMLIN, WV 25523
304 824-5141 - FAX 304 824-2247

NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

LATITUDE 38°10'00"



NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

SURFACE HOLE
STATE PLANE WV SOUTH ZONE NAD 1927 N - 412,714.09 : E - 1,662,744.12
LATITUDE: (N) 38.1275797° LONGITUDE: (W) 82.1724847°
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,220,629.842 : E - 397,248.153

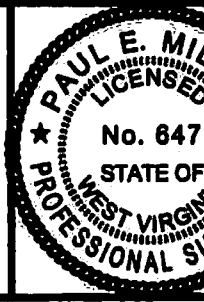
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO.	805344 P&A DGN.
DRAWING NO.	805344 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



DATE OCTOBER 8, 20 14
OPERATOR'S WELL NO. 805344
API WELL NO. _____

OIL AND GAS DIVISION

47 043 00466 F
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 752' WATER SHED LAUREL BRANCH OF GUYANDOTTE RIVER

DISTRICT LAUREL HILL COUNTY LINCOLN

QUADRANGLE BRANCHLAND, WV 7.5'

SURFACE OWNER NELLIE BREWSTER, ETAL ACREAGE _____

OIL & GAS ROYALTY OWNER _____ LEASE ACREAGE _____

LEASE NO. _____

01/16/2015

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 JESSICA GREATHOUSE

ADDRESS P.O. BOX 18498, OKLAHOMA CITY, OK, 73154-0498 ADDRESS PO BOX 6070 CHARLESTON, WV 25303