

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 17, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4301907, 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 penalities 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

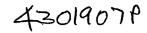
Operator's Well No: 6010

Farm Name: LINCOLN LAND ASSOC.

API Well Number: 47-4301907

Permit Type: PluggingDate Issued: 03/17/2015

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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:	2/11/2015
2) Operator's Well No.	806010 P&A
3) API Well No	47-043-01907

STATE OF WEST VIRGINIA

	DEPARTMENT OF ENVIRONMENTAL PROTECTION				
	OFFICE OF OIL AND GAS				
	311132 3	OIL AND GAG			
	APPLICATION FOR A PE	RMIT 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 732' Watershed	Trace Fork of Mud River			
•	District Carroll County	Lincoln Quadrangle Hamlin, WV 7.5'			
6)	Well Operator Change and American L. C.				
6)	Well Operator Address Chesapeake Appalachia, L.L.C. P.O. Box 18496	7) Designated Agent Address Jessica Greathouse P.O. Box 6070			
	Oklahoma City, OK 73154-0496	Charleston, WV 25362			
		The footening in the second			
8)	Oil and Gas Inspector to be notified	9) Plugging Contractor			
	Name Ralph Triplett	Name Chesapeake Appalachia, L.L.C.			
	Address 5539 McClellan Highway Branchland, WV 25506	Address P.O. Box 18496 Oklahoma City, OK 73154-0496			
	Dianomana, WV 2000	Orianoma City, OK 73154-0496			
10)	Work Order: The work order for the manner of plugging	this well is as follows:			
	See Attached S	Sheet			
Mar	Netification must be given to the district all and are inspector 0.4 hours before a security of section 1.				
NOti	Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.				
Wo	rk Order approved by Inspector				
	THE STATE OF THE S				

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03/20/2015

806010 P&A Procedure

NOTE: 8 1/4" may have been pulled

ELQU. 732

- 1) Prepare road and location, MIRU service rig
- 2) RIH with tools to check TD approximately at 2050'
- 3) TIH with W.S. to 2050', spot gel
- 4) Spot 100' cement plug 2050'-1950', pull W.S. (55/45A)
- 5) Cut 3" at free-point (approximately 1700') and pull
- 6) Run W.S. to 1700', spot gel
- 7) Spot 150' cement plug 1700'-1550', pull W.S.
- 8) RIH with tools to check top of plug (If TOC is below 1610' then reset plug)
- 9) Shoot or rip holes in 6 5/8" approximately at 1525', 1500', 1325' and 1300'
- 10) Run W.S. to 1525', spot gel
- 11) Spot 100' cement plug 1525'-1425', pull W.S. to 1325'
- 12) Spot 100' cement plug 1425'-1325', pull W.S.
- 13) Cut 6 5/8" at free-point (approximately 875') and pull
- 14) Run W.S. to 875', spot gel
- 15) Spot 150' cement plug 875'-725', pull W.S.
- 16) RIH with tools to check TOC (If top of plug is below 775' then reset plug)
- 17) Determine if the 8 1/4" is in the well
- 18) If 8 1/4" is present then attempt to pull 8 1/4"
 - A) If successful or 8 1/4" is not present
 - a) Run W.S. to 375', spot gel
 - b) Spot 100' cement plug 375'-275'
 - c) Proceed to step 19 20
 - B) If unsuccessful
 - a) Run W.S. to 375'
 - b) Spot 100' cement plug 375'-275', pull W.S.
 - c) Cut 8 1/4" at free-point (approximately 125') and pull
 - d) Proceed to step 20
- 20) Pull or run W.S. to 125'
- 21) Spot 125' cement plug 125'-surface
- 22) Pull W.S. and top off with cement
- 23) Erect monument and reclaim as prescribed by law

Received

FEB 2 5 2015

Office of Oil and 03/20/2015

WV Dept. of Environmental Profession

	VELOPMEN'		Well # 806010 API # 47-043-01967 ap Square
RECORD OF WELL No. 6010 on the	CASTING	AND TUBING	TEST BEFORE SHOT
J. W. Jimison Farm of Acres		SED IN LEFT IN	of Water in juch
in Carroll District Lincoln County	16		10ths
Field, State of No.	10	20	TEST AFTER SHOT
*	81/4	316	of Water ininch
Rig Commenced 192	6%	1625	of Merc. ininch
Rig Completed 192	5 3-16		Volume 1,175,000 Cu. ft.
Drilling Commenced 10-22-17 192	47%		Rock Pressure 530
Drilling Completed 11-26-17 192	4		Date Shot 1917
Drilling to cost per foot	а	288	Size of Torpedo 80 2ts
Contractor is: G. L. Meabon	2	1800	Oil Flowedbbls. 1st 24 hrs.
Address:	SH	UT IN 20 \$8	Oil Pumpedbbls, 1st 24 hrs.
Driller's Names Fred Weabon J. M. Chichester		Tubing or Casing	Well abandoned and Plugged19
	1st Perf. Set	from	
	2nd Perf. Set	from	

DRILLER'S RECORD					
Formation	Тор	Bottom	Thickness	Remarks	
Mud Sand slate Sand Slate-reduce hole Sand Slate & sand she Slate Sand Slate & sand shells Slate Salt sand mas Slate Sand Mater 880 Elack shale Maxton sand Little lime Pencil cave Big lime Gas Slate Keener Slate Keener Slate Injun sand Slate & lime she Lime Slate & lime shells Brown shale Erea Slate TOTAL DEPTH	325 350 550 650 675 750, 810, 836 846 1195 1200 1280 1295 1300 1455 1492 1497 1514 1524	10 40 70 120 120 120 316 325 350 550 675 750 836 846 1195 1200 1280 1295 1300 1492 1497 1514 1600 1815 2035 2045 2045		RECEIVED Office of Oil and Gas FEB 1 2 2015 WV Department of Environmental Protection	

WW4-A
Revised
2/01

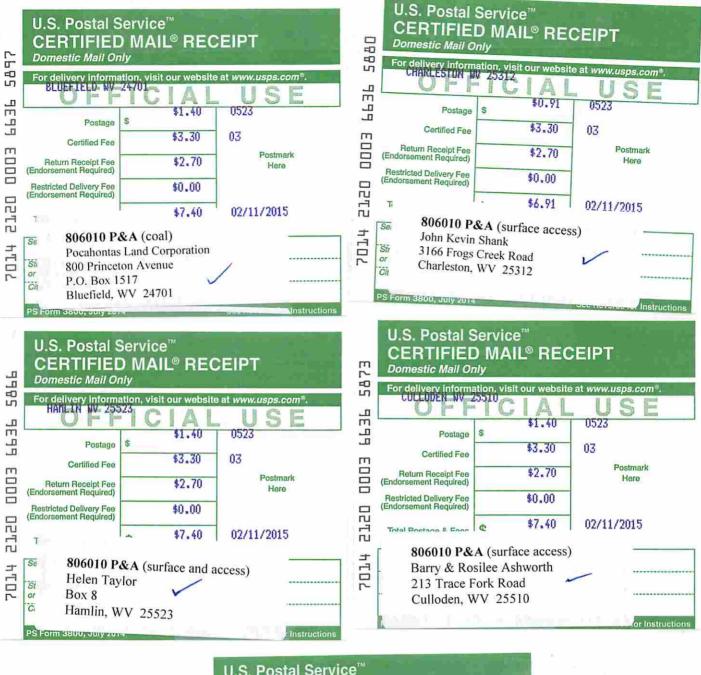
4) Surface Owner(s) to be served:

1) Date: 2/11/2015 2) Operator's Well No. 806010 P&A 3) API Well No. 47-043-01907

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

5) Coal Operator

(b) Name Address 213 Trace Fork road Culloden, WV 25510 Coal Owner(s) with Declaration (b) Name Address Closes Address Culloden, WV 25510 Coal Case Address Address Address Address John Kevin Shank Address Address Address Address Address Barry & Rosilee Ashworth Address John Kevin Shank Address Address Address Address Ralph Triplett Address S539 McClellan Highway Branchland, WV 25506 Telephone 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 malted 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. Well Operator: Chesapeake Appalachia, L.L.C. Well Operator: Chesapeake Appalachia, L.L.C. Address: Oklahoma City, OK 73154-0498 Address: Oklahoma City, OK 73154-0498 Address: Oklahoma City, OK 73154-0498 Address: Address: Oklahoma City, OK 73154-0498		ox 8 omlin, WV 25523	_ (a) Name Address	None
Address Charleston, WV 25312 Charleston, WV 25312 Ralph Triplett Address S539 McClellan Highway Branchland, WV 25506 Telephone Telephone 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 filled 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: Well Operator: Well Operator: Chesapsake Appalachia, L.L.C. P.O. Box 18496 Oklahoma City, OK 73154-0496 Motary Public Notary Public Notary Public Notary Public	Address 21	3 Trace Fork road	(b) Name	Chesapeake Appalachia, L.L.C. Attention: Fred Jones P.O. Box 6070
Coal Lessee with Declaration Address Ralph Triplett 539 McClellan Highway Branchland, WV 25506 Telephone 304-389-0350 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-48, which sets out the parties involved in the work and describes the well list 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: Well Operator: Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Well Operator: Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. P.O. Box 18498 Oklahoma City, OK 73154-0498 dos-935-4073 Subscribed and sworn before me this Notary Public	Address 31	66 Frogs Creek Road		800 Princeton Avenue P.O. Box 1517
Address State Sta	•		Coal Lesse	
Address State Sta) Inspector Ra	lph Triplett	(c) Name	None
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: Well Operator: Well Operator: Ompletion Superintendent Address: Oklahoma City, OK 73154-0496 Telephone: Well Operator: Oklahoma City, OK 73154-0496 Oklahoma City, OK 73154-0496 Telephone: Oklahoma City, OK 73154-0496 Oklahoma City, OK 73154-0496 Telephone: Oklahoma City, OK 73154-0496	Address 55	39 McClellan Highway	Address	
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Well Operator: Chesapeake Appalachia, L.L.C. By: Completion Superintendent Pryllis A. Copicy 144 Willard Circle Hurricana, WV 26528 By Commission Expires September 16, 2018 Telephone: 405-935-4073 Subscribed and sworn before me this Aday of February the year of 2015 Phyllis A. Copicy Notary Public	instructions on the Take notice that un Notice and Applica Oil and Gas, West attached Applicatio mailed by registere	reverses side. However, you are no der Chapter 22-6 of the West Virgin tion and accompanying documents Virginia Department of Environmen n and depicted on the attached For d or certified mail or delivered by ha	ot required to take any action at all. nia Code, the undersigned well operator for a permit to plug and abandon a well tal Protection, with respect to the well at m WW-6. Copies of the Notice, the App and to the person(s) named above (or by	proposes to file or has filed the with the Chief of the Office of the localion described on the olicalion, and the plat have been
By: Phytlis A. Copicy 144 Williard Circle Hurricane, WV 26528 By Commission Expires September 18, 2018 Subscribed and sworn before me this Phytlis A. Copicy Address: Completion Superintendent P.O. Box 18496 Oklahoma City, OK 73154-0496 405-935-4073 Subscribed and sworn before me this Phytlis A. Copylly Notary Public	Car Section Country of Country	The second secon		Latin III O
Phyllis A. Copley Address: P.O. Box 18496 Oklahoma City, OK 73154-0496 Subscribed and sworn before me this Address: Telephone: Telephon			A () ()	ACTIA, L.L.O.
Address: P.O. Box 18496 Oklahoma City, OK 73154-0496 Subscribed and sworn before me this Address: P.O. Box 18496 Oklahoma City, OK 73154-0496 405-935-4073 Subscribed and sworn before me this Address: P.O. Box 18496 Oklahoma City, OK 73154-0496 405-935-4073 Subscribed and sworn before me this Address: P.O. Box 18496 Oklahoma City, OK 73154-0496 Address: P.O. Box 18496	1/2/			nlendent
Oklahoma City, OK 73154-0496 405-935-4073 Telephone: 405-935-4073	11000000000000000000000000000000000000	the state of the state of		
Telephone: 405-935-4073 Subscribed and sworn before me this // day of February the year of 2015 Phyllis Q - Crylly Notary Public	My C	ommission Expires	Oklahoma City, Ok	73154-0496
Phyllis a. Crysly the year of 2015 Notary Public)	to the second of	Telephone: 405-935-4073	
Ny Commission Expires September 16, 2018	ubscribed and sworn be		- 1 - 1	
		The state of the s		



RECEIVED
Office of Oil and Gas

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WV Department of Environmental Protection

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	For delivery information of the control of the cont	ICIAL	USE
1 0003 FF3F	Postage Certified Fee Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required)	\$1.40 \$3.30 \$2.70 \$0.00	0523 03 Postmark Here
7014 2120	S 806010 Pe Chesapeake Attn: Fred P.O. Box 60	: Appalachia, L.L.C. Jones	02/11/2015

CK 524 1364

Form WW-9 Rev. 02/01

API Number	47-043-01907
Operator's Well No.	806010 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 NameCh	esapeake Appalachia, L.L.C.	OP Code <u>494477557</u>	
Watershed	Trace Fork of Mud River	Quadrangle Hamlin, WV 7.	5'
Elevation732'	County Lincoln	District Ca	arroll
Description of anticipated P	it Waste: Plugging Returns/Cement	**************************************	
Will a synthetic liner be use	d in the pit? Yes	20 mi,	
Proposed Disposal Method X	For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Nu Reuse (at API Number Off Site Disposal (Supply form WW-9 form Other (Explain	or disposal location)	
Proposed Work For Which	Pit Will Be Used: Drilling Workover Swabbing Plugging Other (Explain)	
issued on December 31, 199 understand that the provision permit and/or other applicable I certify under penalty of I this application form and all a for obtaining the information,	and agree to the terms and conditions of the GENE 9, by the Office of Oil and Gas of the West Virginia as of the permit are enforceable by law. Violations o e law or regulation can lead to enforcement action. Haw that I have personally examined and am familiar attachments thereto and that, based on my inquiry of I believe that the information is true, accurate, and withing false information, including the possibility of fire	Department of Environmental Protection. I of any term or condition of the general r with the information submitted on of those individuals immediately responsible complete. I am aware that there are	
Company Official (Typed Na	ame) Robert E. Schindler		
Company Official Title	Completion Superintendent	ŧ	
Subscribed and sworn befor	re me this 11th day of February Phyllis a. Cop	, <u>2015</u> . Lly Notary Pub	olic.
Office	September 16, 2018 ECEIVED of Oil and Gas	Official Seal Notary Public State of West Virginia Phyllis A. Copley 146 Willard Circle Hurricane, WV 25526 My Commission Expires Beptember 16, 2018	03/20/2

WV Department of Environmental Protection 03/20/2015

Attachment #1

API #: 47-043-01907 Operator's Well No. 806010 P&A

1	EGEND	
Property Boundary	Diversion Leaves 111111111111111111111111111111111111	•
Rond = = = = = = = = = =	Spring -	
Existing Fence — X — X — X —	Wet Spot	
Planned Fence///	Drain Pipe with size in inches (2	
Stream (19, 7)	Waterway \longleftrightarrow \longleftrightarrow \longleftrightarrow	
Open Ditch	Cross Drain	
Rock ESESE	Artificial Filter Strip	:
North N	Pit: cut walls	
Buildings	Pit: compacted fill walls	
Water wells	Area for Land Application of Pit Waste	
Drill site		
Proposed Revegetation Treatment: Acres Disturbe	d 1.0 Prevegetation pH 6.1	
Lime 3	Tons/acre or to correct to pH6.5	
Fertilizer (10-20-20 or equivalent) 1/3 TO	N lbs/acre (500 lbs minimum)	
Mulch Hay 2	_Tons/acre	
s	Seed Mixtures	
Area I	Area II	
Seed Type Ibs/acre	Seed Type	lbs/acre
CHESAPEAKE CONTRACTOR'S MIX 40 ALSIKE CLOVER 5	ORCHARD GRASS ALSIKE CLOVER	15 5
ANNUAL RYE 15	ALGINE GEOVER	3
Attach:		
Drawing(s) of road, location, pit and proposed area for	r land application.	
Photocopied section of involved 7.5' topographic sheet	et.	
Plan Approved by:		
Title: inspector 006		
Date: <u>2-23-15</u>		
Field Reviewed? () Yes	() No	

Received

FEB 2 5 2015

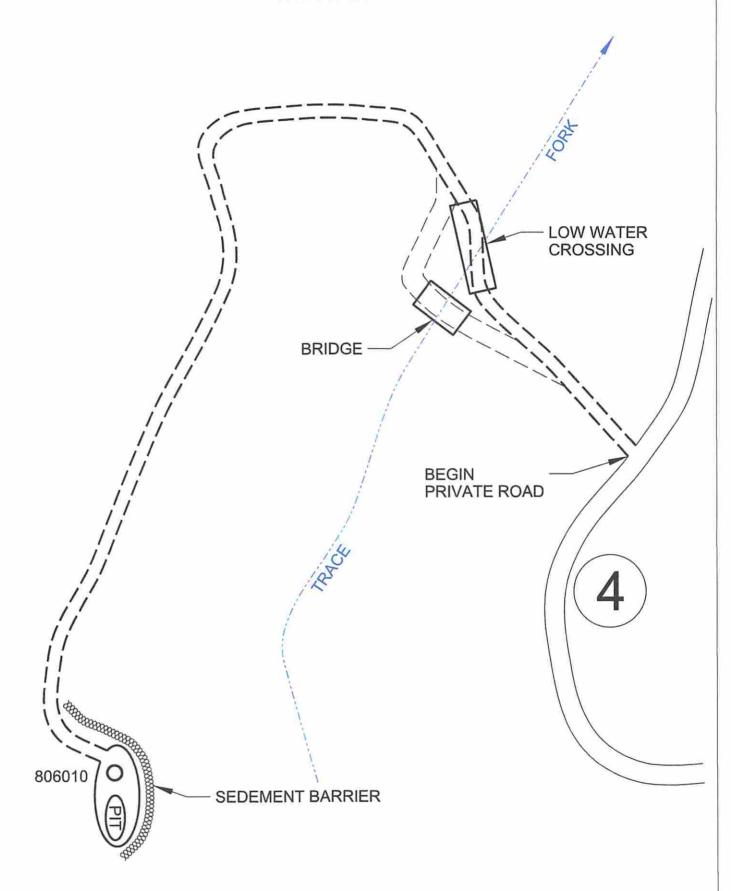
03/20/2015

43019078

CHESAPEAKE APPALACHIA, L.L.C.

TOPOGRAPHICAL MAP OF ACCESS AND WELL LOCATION 806010

API 47-043-01907



RECEIVED
Office of Oil and Gas

03/20/2015

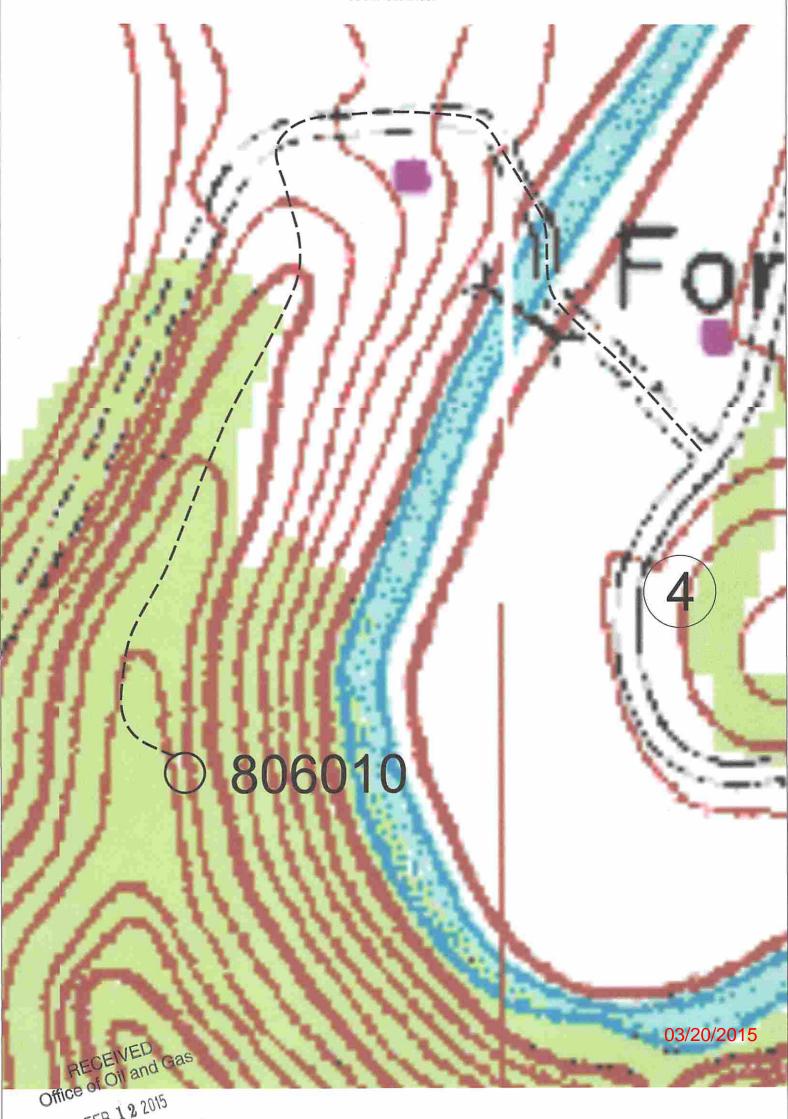
FEB 1 2 2015

WV Department of
Environmental Protectics Apeake ENERGY CORPORATION - EASTERN DIVISION
P.O. BOX 579 - 8165 COURT AVENUE - HAMLIN, WV 25523
304 824-5141 - FAX 304 824-2247

CHESAPEAKE APPALACHIA, L.L.C.

TOPOGRAPHICAL MAP OF ACCESS AND WELL LOCATION 806010

API 47-043-01907



FEB 1 2 2015

WV Department of
P.O. BOX 579 - 8165 COURT AVENUE - HAMLIN, WV 25523

Environmental Protection P.O. BOX 579 - 8165 COURT AVENUE - HAMLIN, WV 25523

