

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: 47-4300171, 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.

Operator's Well No: 804626

Farm Name: STOWERS, BUSTER & OLLIE

James Martin

API Well Number: 47-4300171 Permit Type: Plugging

Date Issued: 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.

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

1) Date: 10/21/2014 2) Operator's Well No. 804626 P&A

3) API Well No.

47-043-00171

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

CK 5209811

APPLICATION FOR A PERMIT TO PLUG AND ABAN	DO	D	J	١	ř	J	۱	ľ	Ì	į.	ł	2	F	F	d	۱	١	L	I		١	1		ſ	I	ı	J	١	ı	ú	١	l	Ì			1	3	3	7	(ĺ	ı	1	ľ	l	l			l	ı))	P	ſ	١		h	١	1	1	((1	ľ	Ī	1	٦	1	1			•	٢	r	T	1	•	ľ	ı	۱	ı	J	Ų	١	١	ľ	1	2	?		F	ı	١	:	=			F	E	1	ľ))	3		F	l	١	١	١	١	١	١	١	١	l	l	١	ı	ı	ı	١	ı	ı	ı	ı	l	ŀ	ŀ	ŀ	ŀ	ŀ	ŀ	ŀ	ŀ	F	F	F	F	F	ŀ	F	F	F	F	F
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4)	Well Type (Is Gas.		Oil	Gas r Undergroun		Lie	quid injection		_ Wa	ste disposal	_
	(IS Gas,	Pio	duction _X o	i Undergroun	u storage	_'	D	еер	300	Shallow	<u> </u>
5)	Location:		Elevation	1087'	Watershed			Bear B	ranch of Pe	ters Cave Fork	
			District	Duval	County		Lincoln	Qua	idrangle	Griffithsville,	WV 7.5'
6)	Well Ope	erator	Chesapeak	e Appalachia	a, L.L.C.	7)	Designate	ed Agent	Eric B. Gi	llespie	
	Address		P.O. Box 1	8496			Address		P.O. Box	6070	
			Oklahoma	City, OK 731	54-0496				Charlesto	n, WV 25362	
8)	Oil and G	as Ins	pector to be n	otified		9)	Plugging	Contractor			7
	Name	Ralp	h Triplett				Name	Chesape	ake Appala	chia, L.L.C.	
	Address	5539	McClellan H	ighway			Address	P.O. Box	18496		
		Bran	chland, WV	25506				Oklahom	a City, OK	73154-0496	
		1						-			

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 Received

Office of Oil & Gas

API: 47-043-00171

804626 P&A

NOTE: 3 1/2" is parted at 1910' and we can't get down hole

- Run W.S. to 1900', spot gel
- Spot 250' cement plug 1900'-1650', pull W.S.
- 3) Cut 6 5/8" at free-point (approximately 900') and pull
- Run W.S. to 900', spot gel
- 5) Spot 150' cement plug 900'-750', pull W.S.
- 6) Attempt to pull 8 1/4" casing
 - A) If successful:
 - a) Run W.S. To 540', spot gel
 - b) Spot 100' cement plug 540'-440', pull W.S. to 315'
 - c) Spot 165' cement plug 315'-150'
 - d) Proceed to step #7
 - B) If unsuccessful:
 - a) Rip or shoot holes at 490'
 - b) Run W.S. to 590', spot gel
 - c) Spot 150' cement plug 590'-440', pull W.S.
 - d) Cut 8 ¼" at free-point (approximately 310') and pull. If unable to pull 300' of 8 ¼", then rip holes at coal seams.
 - e) Run W.S. to 300', spot gel
 - f) Spot 150' cement plug 300'-150'
 - g) Proceed to step #7
- Pull W.S. to 125'
- 8) Spot 125' cement plug 125'-surface
- 9) Pull W.S. and top off with cement
- 10) Erect monument and reclaim as prescribed by law

Received Office of Oil & Gas

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WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

47-043-00171P Well 8046208+A Vol. Master Oll or Gas Well Geo. Page I & 2

WELL RECORD

Permit No. Lin-171 Company UNITED FUEL GAS COMPANY Casing and Tubing Used in Left In Packers Address CHARLESTON, W. VA. Farm Horse Creek Land & Mining Co. Acres 11, 324 Size Location (waters)..... Eley. 10501 Well No. 4626 Kind of Packer ... Hook Wall District DuyalCounty Lincoln Size of The surface of tract is owned in fee by 3 × 6-5/8" 814... 53618" 53618 ...Address.. 178514" 6 6/8. 173514" Depth set .. Mineral rights are owned by .. 5 3/16 Drilling commenced July 16, 1936 244019" Perf. top Drilling completed October 15, 1986 Perf. bottom Date shot October 8, 1956 Depth of shot Perf. top ... Open Flow 10 /10ths Water in ... 2.... Perf. bottom 5 /10ths Merc. in ... 2 ...Inch Volume 475/ Shale Shale Rock Pressure 300/ Berea It GASING CEMENTED. .Cu. PL ...hrs. OU. bble., 1st 24 hrs. COAL WAS ENCOUNTERED AT 95 FEET 36" INCHES feet 230 180 260 FEET 36 INCHES 280 FEET 48 INCHES Fresh waterfeet 489 FEET 48 960 ...INCHES.....FEET..... ..feet Salt water ..

Formation	Color	Hard or Soft	Тор	Bottom	Oll Gas or Water	Depth Found	Remarks
a y			0	16			
ate			16	40			
nd			40	90			
ate			90	95			
al			95	98	1	1	
ate		V	98	105			
nd			105	285.	Water	1801	
ate			235	260	Water	250'	
1			260	263	inci di i	2.00	
ate			263	280			
al			280	284	1		
ate			284	320		1	
nd			320	465		14	
ate			465	477	1. 3		
			477	489	1	1	
me							
al			469	493	1		
ate			493	527	1 1	- 1	1
me			527	590	.11	1	
nd			590	630	1		
ate			630	748	1	1	
nd			748	785	1		
ate & Lime		M (4)	785	828			
me			823	833			
ate			833	853		-	
1t Sand			853	1019	Water	9601	
ate		2	1019	1050		-	
lt Sand			1050	1080			
ate			1080	1124			
1t Sand			1124	1252			
ate			1252	1807			
Lt Sand			1807	1335			
ate Shells			1335	1345			
Lt Sand			1345	1390	18 11		
te Slate			1390	1395			
t Sand			1895	1530	1 1		
d Rock			1580	1555	1 1		
ate & Shells			1555	1625	1 1	Y 10	Receive
ton Sand			1625	1666			
ok Slate			1666	1670			Office of Oil
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ROT

Gas

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Formation	Color	Hard or Boft	Тор	Hottom	Oll, Gas or Water	Depth Found	Remarks
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onn Shale onn Shale Lime tal depth			3985 4834 4561	4334 4561 4566 4566	Gns	89288938	35/10 W 2"274 W
3		÷				181	

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Office of Oil & Gas
OCT -9 0 2014

	Date	10,
APPROVED	UNITED FUEL GAS COMPANY .	Öwner
Ву		

WW4-A Revised 2/01

1) Date:	10/21/2014
2) Operator's Well No.	804626 P&A
3) API Well No.	47-043-00171

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

)	Surface Ow	ner(s) to be served:	5) Coal Operator
	(a) Name	Thomas Stowers	(a) Name Robin land Company, LLC
	Address	114 Morton Drive	Address 500 Lee Street, East, Suite 900
		Hamlin, WV 25523	Charelston, WV 25301
		-	Coal Owner(s) with Declaration
	(b) Name	Dorsel Stowers	(b) Name Horse Creek Coal Land
	Address	8126 Straight Fork	Address 300 Capitol Street, Suite 1503
		Hamlin, WV 25523	Charleston, WV 25301
	(c) Name		Name
	Address		Address
			Coal Lessee with Declaration
)	Inspector	Ralph Triplett	(c) Name Robin land Company, LLC
•	Address	5539 McClellan Highway	Address 500 Lee Street, East, Suite 900
		Branchland, WV 25506	Charelston, WV 25301
	Telephone	304-389-0350	

- (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.

hummmund	Well Operator: By: Its:	Chesapeake Appalachia, L.L.C. Completions Superintendent	
Gillicial Saul Hotary Public State of West Virginia	Address:	P.O. Box 18496	
Phyllis A. Copley ?		Oklahoma City, OK 73154-0496	
964 Williard Carole Hundraine, WV 25526	Telephone:	405-935-4073	
ubscribed and sworn before me (his 21 d	lay of October	the year of2014	
Thille	- a Coply	Notary Public	Possived

September 16, 2018 My Commission Expires

Received Office of Oil & Gas

804626 PHA





316	For delivery inform	D MA	AIL _M REO	CEIPT Coverage Provided) at www.usps.com⊚
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449	Postage	s	\$1.61	0522
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3460	Total Postage & Fees	\$	37.31	10/22/2016
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Restricted Delivery Fee (Endorsement Required)		\$0.90	
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Page	of
API Number	47-043-00171
Operator's Well No.	804626 WO

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 Na	imeC	hesapeake A	Appalachia, L.	L.C.	OP Code4944	77557		
Watershed	B	Bear Branch of Peters Cave Fork				Quadrangle Griffithsville, WV 7.5'		
Elevation _	1087'		County _	Lincoln	Distric	ctDuval		
Description of	of anticipated I	Pit Waste:	Plugging Ret	urns/Cement				
Will a synthe	etic liner be us	ed in the pit?	Yes		20 MIL.			
Proposed Di		Land App Undergro Reuse (a	olication ound Injection (t API Number_ Disposal (Suppl		or disposal location))		
Proposed W	ork For Which	Pit Will Be U Drilling Workovel Swabbing Plugging Other (Ex)		
issued on understand permit and I certify this applica for obtainin significant Company Of	December 31, 19 d that the provision of their applicate younder penalty of ation form and all the information penalties for substitution of the information penalties for substitution of their application of their applic	99, by the Office ns of the permit le law or regular law that I have attachments the 1 believe that the mitting false info	e of Oil and Gas of are enforceable betton can lead to en personally examinated and that, bas the information is transition, including Robert E. Sc	the West Virginia y law. Violations forcement action. ned and am familia ed on my inquiry rue, accurate, and the possibility of the	ERAL WATER POLLUTIO Department of Environme of any term or condition of or with the information sub- of those individuals immed complete. I am aware tha ine or imprisonment.	ntal Protection. I the general mitted on iately responsible		
	nd sworn befo		21 day of	October Copple		_·Notary Public.		
9.00	ion Expires ceived f Oil & Ga		ber 16, 2018	_		Carclet Seed Hotary Public State of West Virginia Privilis A. Confev		

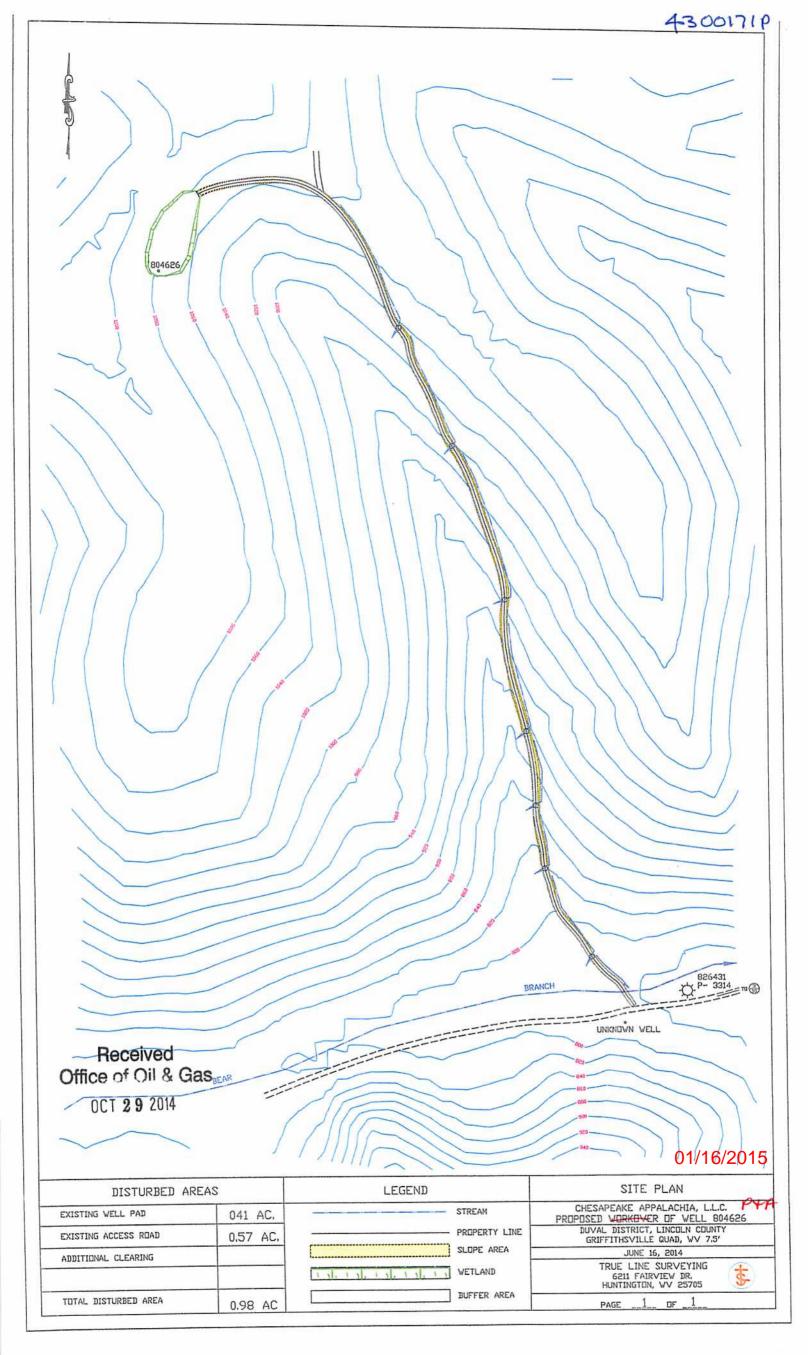


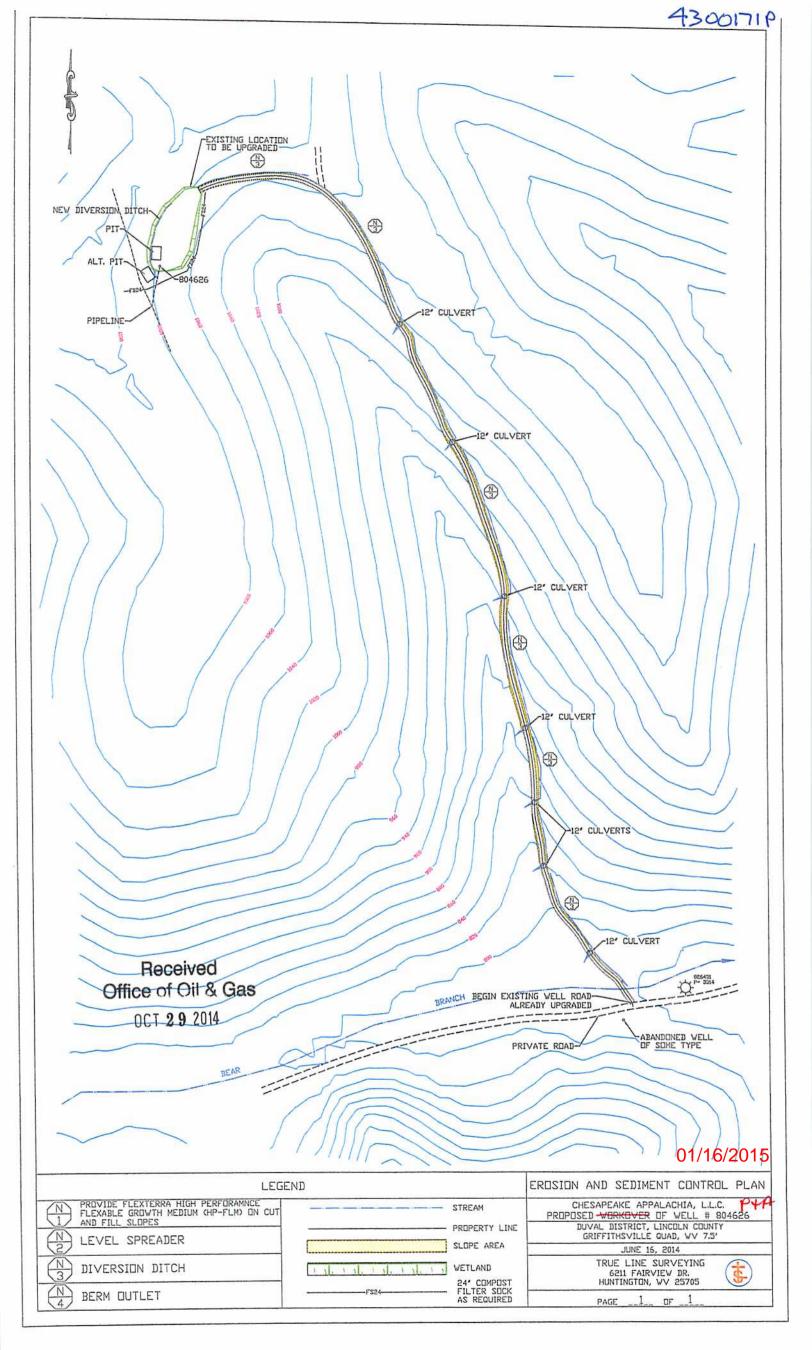
Attachment #1

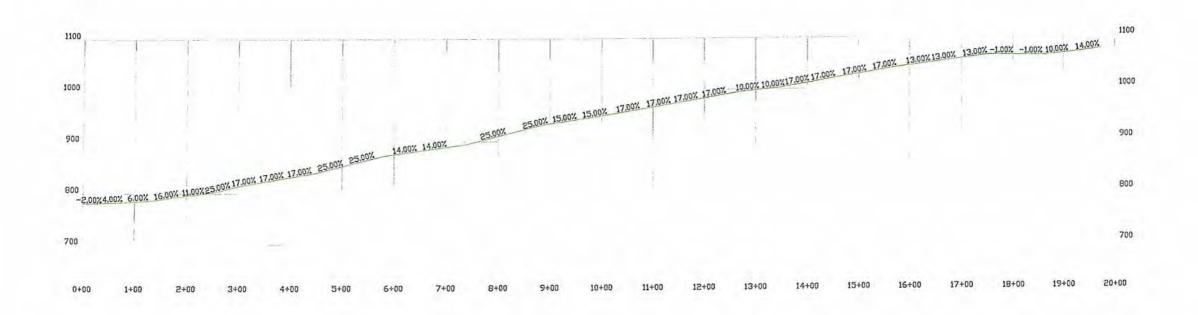
API #: 47-043-00171 Operator's Well No. 804626 P&A

Property Boundary		Diversion Lease Land						
Rond = = = = = = =	:==	Spring -						
Existing Fence — X — X —	· × —	Wet Spot						
Planned Fence//	/	Drain Pipe with size in inches Waterway Waterway						
Stream								
Open Ditch	• • • • • • • • • • • • • • • • • • • •	Cross Drain Artificial Filter Strip XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX						
Rock 655688								
North N								
Buildings E		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 eq	uivalent) 1/3 TON	lbs/acre (500 lbs minimum)						
	Mulch Hay 2	_Tons/acre						
	S	eed Mixtures						
Area I		Аге	a iI					
Seed Type	lbs/acre	Seed Type	lbs/acre					
(Y-31	40	ORCHARD GRASS	15					
ALSIKE CLOVER	5	ALSIKE CLOVER	5					
ANNUAL RYE	15							
Attach:								
Orawing(s) of road, location, pit and	proposed area for	r land application.						
Photocopied section of involved 7.5' topographic sheet.								
								
Plan Approved by: Raepl Fitle: District Inspector	D Trupes	H =						
Title: Distruct ensper	Received							
Date: October 22, 5	ort		Office of Oil & Gas					
,	Yes	() No	OCT 29 2014					

LEGEND







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ROAD PROFILE

CHESAPEAKE APPALACHIA, L.L.C. PROPOSED WORKDVER OF WELL 804626

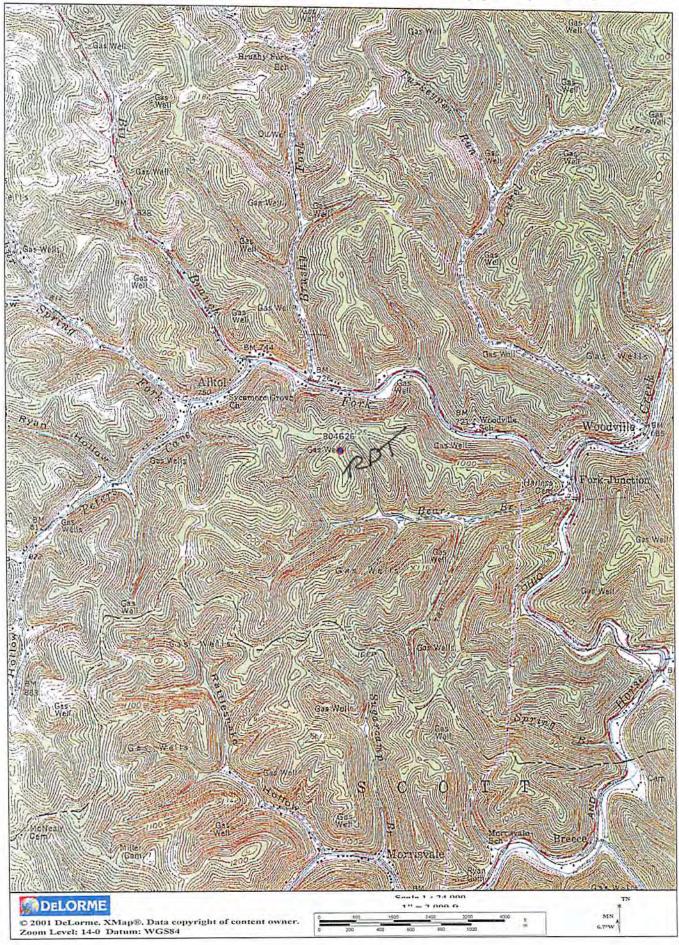
DUVAL DISTRICT, LINCOLN COUNTY
GRIFFITHSVILLE DUAD, WV 7.5'

JUNE 16, 2014

TRUE LINE SURVEYING 6211 FAIRVIEW DR. HUNTINGTON, WV 25705



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